

RESTRICTED

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IONOSPHERIC DATA

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IONOSPHERIC DATA

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at Washington, D.C., May, 1945.

Sudden Ionosphere Disturbances

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TERMINOLOGY AND SCALING PRACTICES

The symbols and terminology used in this report are those adopted by the International Radio Propagation Conference, and given in detail on pages 24 to 26 of the report IRPL-C61, "Report of International Radio Propagation Conference", and in the Section on "Terminology", in reports IRPL-F1, 2, 3, 4, 5.

In the past, ionospheric conditions were summarized on a monthly basis by using average or mean values, for each hour of the day, for each month. The advantages of using median, instead of average values, were such, however, that beginning with data for 1 Jan. 1945, median values were used by the IRPL wherever possible. Consequently, all summarized data given in the IRPL-F series reports use median values, when such values are reported to the IRPL, or when detailed data are reported to IRPL to permit their calculation. Thus, median values are given for Washington, for all stations reporting directly to the IRPL, for the Canadian stations, and for all others sending in detailed tabulations to the IRPL.

Where average values are reported, they are the average for all days of the month; values missing for any reason are completely omitted from the average.

The monthly median values used here are the values equalled or exceeded on half the days of the month at the given hour. The following conventions are used in determining the medians for hours when no measured values are given, because of equipment limitations and ionospheric irregularities. Symbols used are those given in the report referred to above, IRPL-C61.

a. For all ionospheric characteristics:

Values missing because of A, B, C or F (see terminology referred to above) are omitted from the median count.

b. For critical frequencies and virtual heights:

Values missing because of E are counted as equal to or less than the lower limit of the recorder.

Values missing because of D are counted as equal to or greater than the upper limit of the recorder.

Values missing because of G are counted:

1. For f^oF_2 , as equal to or less than f^oF_1 .

2. For $h'F_2$, as equal to or greater than the median.

Values missing for any other reason are omitted from the median count.

c. For muf factors (M-factors):

Values missing for any reason are omitted from the median count.

d. For sporadic E (Es):

Values of fEs missing because no Es reflections appeared, the equipment functioning normally otherwise, are counted as equal to or less than the lower limit of the recorder.

Values of fEs missing for any other reason, and values of hEs missing for any reason at all, are omitted from the median count.

MONTHLY AVERAGE AND MEDIAN VALUES OF IONOSPHERIC DATA

The ionospheric data given here in graphical and tabular form were assembled by the Interservice Radio Propagation Laboratory for analysis and correlation, incidental to IRPL predictions of radio propagation conditions. The following are the sources of the ionospheric data which appear in the IRPL-F series reports.

Australian Council for Scientific and Industrial Research

Radio Research Board, Australia
Brisbane, Q., Australia
Mt. Stromlo, Canberra, NSW, Australia
Cape York, Q., Australia.

British National Physical Laboratory, and Inter-Services Ionosphere Bureau

Radio Research Station, Slough, England
Great Baddow, England
Burghead, Scotland
Delhi, India
Madras, India
Simonstown, Union of S. Africa

Canadian Department of National Defence, Naval Service

Churchill, Canada
Ottawa, Canada
St. John's, Canada

New Zealand Radio Research Committee

Kermadec Is.
Christchurch (Canterbury University College Observatory)
Campbell I.
Pitcairn I.
Rarotonga I.

Interdepartment Ionosphere Bureau, U.S.S.R. Scientific Experimental

Institute of Terrestrial Magnetism, Moscow, U.S.S.R.
Tykhi Bay, U.S.S.R.
Tomsk, U.S.S.R.
Sverdlovsk, U.S.S.R.
Moscow, U.S.S.R.

Carnegie Institution of Washington (Department of Terrestrial Magnetism)

Baffin I., Canada
Christmas I.
Fairbanks, Alaska (University of Alaska, College, Alaska)
Reykjavik, Iceland
Maui, Hawaii
Trinidad, Brit. West Indies
Huancayo, Peru
Watheroo, W. Australia

National Bureau of Standards, Washington, D.C.
 Stanford University, (San Francisco), California
 Louisiana State University, Baton Rouge, Louisiana
 University of Puerto Rico, San Juan, P.R.
 Harvard University, Boston, Mass.

The tables of "provisional data" give values as reported to the IRPL by telephone or telegraph. Any errors in these values will be corrected in later issues of the F-series reports.

The tables and graphs of "final data" are correct for the values reported to the IRPL, but, because of variations in practice in the interpretation of records and scaling and manner of reporting of values, may at times give an erroneous conception of typical ionospheric characteristics at the station. Some of these errors are due to:

- a. Differences in scaling records where spread echoes are present.
- b. Omission of values where f^oF_2 is less than or equal to f^oF_1 , leading to erroneously high values of monthly average or median values.
- c. Omission of values where critical frequencies are less than the lower frequency limit of the recorder, also leading to erroneously high values of monthly average or median values.

These effects were discussed on pages 6 and 7 of the previous F-series reports, IRPL-F1, 2, 3, 4, and 5. Discrepancies between predicted and observed values are often ascribable to these effects.

IONOSPHERIC DATA FOR EVERY DAY AND HOUR

These data, observed at Washington, D.C., follow the scaling practices given in the report IRPL-C61, "Report of International Radio Propagation Conference," pages 36 to 39, and the median values are determined by the conventions given under "Terminology and Scaling Practices" above.

IONOSPHERE DISTURBANCES

Table 63 presents ionospheric character figures for Washington, D.C., during May, 1945, as determined by the criteria presented in the report IRPL-R5, "Criteria for Ionospheric Storminess", together with American magnetic K-figures which are usually covariant with them.

Table 64 gives provisional radio propagation quality figures for North Pacific areas, for 01 to 12 and 13 to 24 GCT, January and February 1945, compared with IRPL daily radio disturbance warnings, the ISIB daily warnings, the IRPL semiweekly radio propagation forecasts, and the half-day American geomagnetic K figures.

Tables 65 and 66 give similar quality figures and comparisons for the North Atlantic and North Pacific areas, March and April 1945.

The radio propagation quality figures were prepared from radio traffic data, reported to IRPL, in the manner described in detail in report IRPL-R13, "Ionospheric and Radio Propagation Disturbances, October 1943 through February 1945," issued 24 May 1945.

NEW STATION

The one new station for which data appear in this report for the first time is St. John's, Newfoundland (47.5°N, 52.7°W), operated by the Canadian Department of National Defence. See Table 5.

ERRATA

The values erroneously reported as $h'F_2$ for Slough for July and August 1944 in report IRPL-F5 (Tables 43 and 40) and for October 1944 in the previous issue IRPL-F9 (Table 33 and Fig. 27) were actually hmF_2 (the height of maximum ionization density for an assumed equivalent parabolic layer).

The longitude of Washington (Sterling, Va.) was erroneously reported as 77.4°W in Table 18 of the previous issue. The correct longitude is 77.5°W.

Table 1 (Provisional data)

Baffin I., Canada (70.5°N, 68.8°W)

May, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f°Fs	F2-M3000
00	260	4.0						3.0
01	260	4.0						3.0
02	260	3.8						3.2
03	250	3.8	230	3.1				3.0
04	310	3.9	230	3.3				2.9
05	370	4.2	250	3.4	115	2.3		3.0
06	470	4.2	250	3.5	113	2.4		2.6
07	480	4.2	250	3.6	112	2.5		2.5
08	470	4.3	250	3.9				2.7
09	450	4.6	250	4.0				2.6
10	430	4.3	230	4.1				2.7
11	400	5.3	240	4.1				3.1
12	440	4.8	240	3.9	110	2.8		2.8
13	470	4.6	240	4.0	110	2.7		2.6
14	490	4.7	250	3.9	110	2.7		2.6
15	420	4.7	240	3.9	111	2.6		2.8
16	410	4.7	240	3.8	112	2.5		2.8
17	380	4.7	240	3.7	113	2.4		2.8
18	340	4.6	240	3.3	114	2.3		3.0
19	270	4.5	250	3.2				3.0
20	270	4.4	230	3.1				3.0
21	250	4.4						3.0
22	250	4.3						3.0
23	260	4.1						3.0

Time: 75°W.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Median values.

Table 3 (Provisional data)

Reykjavik, Iceland (64.1°N, 21.7°W)

May, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f°Fs	F2-M3000
00	280	3.6						3.0
01	230	3.8						3.1
02	230	3.9						3.0
03	250	3.6						2.8
04	240	3.7						2.9
05	220	3.3	230	3.3				3.2
06	220	4.0	210	3.6				3.4
07	210	4.2	200	3.9	100	2.6		3.2
08	340	4.5	200	4.0	80	2.7		3.1
09	350	4.7	200	4.1	80	2.9		3.1
10	330	4.8	190	4.2	80	3.2		3.1
11	340	5.2	190	4.2	70	3.1		3.0
12	350	5.3	190	4.3	70	3.2		2.9
13	350	5.2	200	4.3	70	3.1		2.9
14	340	5.3	190	4.3	80	3.1		3.0
15	340	5.2	190	4.2	70	3.1		2.9
16	350	5.2	200	4.1	80	2.8		3.0
17	310	5.3	200	4.0	80	2.8		3.0
18	270	5.2	210	3.9	100	2.5		3.0
19	240	4.7	220	3.7				3.2
20	230	4.7						3.2
21	230	4.8						3.2
22	280	3.7						3.2
23	320	3.0						2.9

Time: 15°W.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Median values.

Table 2 (Provisional data)

Fairbanks, Alaska (64.9°N, 147.8°W)

May, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f°Fs	F2-M3000
00	307	3.2			100	1.1		2.3
01	315	3.4			100	1.1		2.8
02	310	3.6			100	1.0		2.9
03	315	3.9	265	2.8	100	1.3		2.8
04	330	4.0	260	3.1	100	1.8		2.8
05	415	4.3	259	3.5	100	2.2		2.8
06	420	4.3	240	3.5	100	2.4		2.7
07	440	4.4	230	3.7	100	2.6		2.6
08	430	4.6	220	3.8	100	2.8		2.7
09	447	4.6	220	3.9	100	2.8		2.6
10	465	4.5	215	4.0	100	2.9		2.6
11	440	4.9	215	4.1	100	3.0		2.7
12	430	4.8	215	4.1	100	3.0		2.7
13	425	4.8	215	4.1	100	2.9		2.8
14	420	4.8	221	4.0	100	2.7		2.8
15	395	4.8	221	4.0	100	2.6		2.9
16	360	4.8	228	4.0	100	2.6		3.0
17	345	4.8	235	3.9	100	2.4		3.0
18	300	4.8	240	3.6	100	2.1		3.0
19	280	4.8	240	3.2	100	1.9		3.0
20	250	4.6	245		100	1.7		3.1
21	260	4.0			100	1.3		3.0
22	265	3.9			100	1.1		3.0
23	290	3.5			100	1.1		2.9

Time: 150°W.

Length of time sweep: 16 Mc to 0.5 Mc in fifteen minutes.

Median values.

Table 4 (Provisional data)

Churchill, Canada (58.8°N, 94.2°W)

May, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f°Fs	F2-M3000
00		4.4						2.8
01		4.1						2.8
02		4.4						2.9
03		3.9						2.9
04		3.8						2.9
05		4.1						3.0
06		4.2						2.8
07		4.4						2.6
08		4.5						2.7
09		4.7						2.6
10		4.8						2.7
11		4.9						2.6
12		5.1						2.7
13		5.1						2.8
14		5.2						2.8
15		5.5						2.8
16		5.6						2.9
17		5.5						2.9
18		5.4						2.9
19		5.1						3.0
20		4.7						3.0
21		4.2						2.9
22		4.4						3.0
23		4.1						2.9

Time: 90°W.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Median values.

Table 5 (Provisional data)

St. John's, Newfoundland (47.5°N, 52.7°W)

May, 1945

Time	h'P2	f°P2	h'F1	f°F1	h'E	f°E	fWe	P2-H3000
00		4.0						
01		3.5						
02		3.3						
03		3.1						
04		2.8						
05		3.5						
06		4.3						
07		4.7						
08		5.0						
09		5.2						
10		5.3						
11		5.4						
12		5.5						
13		5.5						
14		5.5						
15		5.8						
16		5.7						
17		5.9						
18		6.2						
19		6.1						
20		6.0						
21		5.8						
22		5.0						
23		4.5						

Median values.

Table 7 (Provisional data)

Boston, Massachusetts (42.4°N, 71.2°W)

May, 1945

Time	h'P2	f°P2	h'F1	f°F1	h'E	f°E	fWe	P2-H3000
00		3.5						3.0
01		3.1						2.9
02		2.8						3.0
03		2.4						3.0
04		2.4						3.1
05		3.6						3.3
06		4.3						3.2
07		4.7						3.1
08		5.0						3.0
09		5.5						3.0
10		5.5						3.0
11		5.6						3.0
12		5.7						3.0
13		5.9						3.0
14		5.7						3.0
15		5.9						3.0
16		5.9						3.0
17		6.1						3.1
18		6.3						3.1
19		6.4						3.1
20		6.0						3.1
21		5.4						3.0
22		4.7						3.0
23		3.8						3.0

Time: 75°N.

Median values.

Table 6 (Provisional data)

Ottawa, Canada (45.5°N, 75.3°W)

May, 1945

Time	h'P2	f°P2	h'F1	f°F1	h'E	f°E	fWe	P2-H3000
00		3.7						2.7
01		3.3						2.7
02		2.9						2.9
03		2.9						2.9
04		2.9						2.9
05		3.6						3.0
06		4.3						3.1
07		4.7						3.0
08		5.1						2.9
09		5.4						2.9
10		5.5						2.9
11		5.5						2.9
12		5.7						2.9
13		5.8						2.9
14		5.7						2.9
15		5.7						2.9
16		6.1						2.9
17		6.2						2.9
18		6.3						2.9
19		6.3						3.0
20		6.2						3.0
21		5.4						2.9
22		5.0						2.9
23		4.2						2.7

Time: 75°N.

Length of time sweep: 1.93 Mc to 13.5 Mc. Manual operation.

Median values.

Table 8 (Provisional data)

San Francisco, Calif. (37.4°N, 122.2°W)

May, 1945

Time	h'P2	f°P2	h'F1	f°F1	h'E	f°E	fWe	P2-H3000
00		4.2						2.7
01		4.2						2.7
02		4.0						2.7
03		3.8						2.6
04		3.6						2.8
05		3.9						2.6
06		4.5						2.8
07		5.1						2.8
08		5.8						2.8
09		6.2						2.9
10		6.4						2.9
11		6.3						2.8
12		6.6						2.9
13		6.8						2.6
14		6.9						2.9
15		6.7						3.0
16		6.6						3.0
17		6.3						3.0
18		6.2						3.1
19		6.4						3.2
20		5.6						3.1
21		4.9						3.0
22		4.5						2.8
23		4.2						2.7

Time: 120°W.

Length of time sweep: 0.8 Mc to 12 Mc in six minutes. Record centered on the hour.

Median values.

Table 9 (Provisional data)

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fPa	P2-M3000
00	5.7							2.2
01	3.6							2.9
02	3.6							3.0
03	3.5							3.0
04	3.4							3.0
05	3.6							3.1
06	4.8							3.2
07	5.2							3.2
08	5.8							3.0
09	5.6							2.3
10	6.0							2.2
11	5.1							2.3
12	6.7							2.3
13	7.2							2.9
14	7.5							2.9
15	7.5							2.3
16	7.6							2.9
17	7.7							3.0
18	3.0							3.1
19	7.3							3.2
20	6.0							3.1
21	4.7							3.0
22	4.0							2.9
23	3.7							2.9

Time: 90°.

Length of time sweep: 1.9 to 9.8 up in three minutes thirty seconds.

Average values.

Table 11 (Provisional data)

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fPa	P2-M3000
00	3.0							3.2
01	7.0							3.1
02	3.1							3.1
03	3.1							3.4
04	3.1							3.2
05	3.1							3.1
06	3.1							3.1
07	3.1							3.1
08	3.1							3.1
09	3.1							3.1
10	3.1							3.1
11	3.1							3.1
12	3.1							3.1
13	3.1							3.1
14	3.1							3.1
15	3.1							3.1
16	3.1							3.1
17	3.1							3.1
18	3.1							3.1
19	3.1							3.1
20	3.1							3.1
21	3.1							3.1
22	3.1							3.1
23	3.1							3.1

Time: 130°.

Length of time sweep: manual operation.

Average values.

Table 10 (Provisional data)

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fPa	P2-M3000
00	200	5.8						3.0
01	260	5.5						3.2
02	260	4.9						3.1
03	250	4.2						3.1
04	260	4.4						3.0
05	250	3.9						3.1
06	250	4.5						3.1
07	240	5.7						3.0
08	300	6.5						2.8
09	350	7.4						2.7
10	355	5.2						2.7
11	380	8.5						2.7
12	350	10.5						2.7
13	330	10.5						2.8
14	300	11.0						3.0
15	300	11.4						3.1
16	290	11.2						3.1
17	270	10.2						3.1
18	250	10.4						3.2
19	230	9.0						3.1
20	240	8.4						3.1
21	230	6.6						3.0
22	280	6.1						2.9
23	280	6.1						2.9

Time: 150°.

Length of time sweep: 1.9 to 9.8 up in three minutes thirty seconds.

Average values.

Table 11 (Provisional data)

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fPa	P2-M3000
00	3.0							3.2
01	3.1							3.1
02	3.1							3.1
03	3.1							3.1
04	3.1							3.1
05	3.1							3.1
06	3.1							3.1
07	3.1							3.1
08	3.1							3.1
09	3.1							3.1
10	3.1							3.1
11	3.1							3.1
12	3.1							3.1
13	3.1							3.1
14	3.1							3.1
15	3.1							3.1
16	3.1							3.1
17	3.1							3.1
18	3.1							3.1
19	3.1							3.1
20	3.1							3.1
21	3.1							3.1
22	3.1							3.1
23	3.1							3.1

Time: 160°.

Length of time sweep: manual operation.

Average values.

Table 13 (Provisional data)

Great Lagoon, Eniwetok (11.70°N, 150°E) April, 1948

Time	h'P2	r'P2	h'P1	r'P1	h'E	r'E	F2-M3000
00		3.4					3.0
01		3.4					3.0
02		4.2					3.0
03		3.2					3.0
04		3.2					2.9
05		3.6					2.9
06		3.9					2.9
07		4.2					2.9
08		4.4					2.8
09		4.6					2.8
10		4.8					2.8
11		5.0					2.8
12		5.1					2.8
13		5.0					2.8
14		5.4					2.6
15		5.5					2.9
16							
17							
18							
19							
20		4.1					3.0
21		3.8					2.9
22		3.8					2.9
23		3.8					2.9

Time: 0°.

Length of time sweep: Manual operation.

Average values.

Table 15 (Provisional data)

Eniwetok, Eniwetok (11.70°N, 150°E) April, 1948

Time	h'P2	r'P2	h'P1	r'P1	h'E	r'E	F2-M3000
00		3.8					2.9
01		3.8					2.9
02		3.9					2.9
03		3.9					3.1
04		3.5					3.1
05		3.2					3.0
06		3.5					3.2
07		5.5					3.4
08		6.5					3.4
09		7.2					3.4
10		7.7					3.3
11		7.9					3.3
12		7.9					3.2
13		8.0					3.3
14		8.2					3.3
15		7.9					3.4
16		7.2					3.4
17		6.4					3.3
18		5.2					3.1
19		4.0					3.0
20		3.8					3.0
21		3.8					3.0
22		3.8					2.9
23		3.8					2.9

Time: 120°.

Length of time sweep: 10 to 0.5 sec in fifteen minutes.

Average values.

Table 14 (Provisional data)

Cape York, Australia (11.00°S, 142.40°E) April, 1948

Time	h'P2	r'P2	h'P1	r'P1	h'E	r'E	F2-M3000
00		4.6					3.1
01		4.4					3.3
02		3.8					3.4
03		2.8					2.3
04		2.5					2.3
05		2.6					2.3
06		4.1					2.2
07		6.5					2.3
08		8.5					2.3
09		9.5					2.4
10		9.8					2.4
11		9.6					3.3
12		9.4					3.1
13		9.8					3.1
14		10.0					3.1
15		10.0					3.0
16							3.1
17							3.1
18							3.1
19							2.9
20							2.9
21							2.9
22							3.0
23							3.0

Time: Local.

Average values.

Table 16 (Provisional data)

Eniwetok, Eniwetok (11.70°N, 150°E) April, 1948

Time	h'P2	r'P2	h'P1	r'P1	h'E	r'E	F2-M3000
00		3.1					2.8
01		3.1					2.8
02		3.2					2.8
03		3.2					2.8
04		3.3					2.9
05		3.1					3.0
06		3.1					2.9
07		3.8					3.0
08		5.6					3.2
09		6.7					3.1
10		7.6					3.0
11		8.0					2.9
12		8.4					2.8
13		9.3					2.8
14		9.6					2.8
15		8.0					2.9
16		8.9					2.9
17		8.5					3.0
18		7.2					3.1
19		4.3					3.0
20		3.3					3.0
21		3.5					3.0
22		3.1					3.0
23		2.9					2.9

Time: 150°.

Length of time sweep: 2 to 15 sec in one minute.

Average values.

Table 17 (Provisional data)

Mt. Stromlo, N.S.W., Australia (35.3°S, 149.0°E) April, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f _{min}	F2-M3000
00		3.8						2.9
01		3.9						2.9
02		3.9						2.9
03		4.0						3.0
04		3.9						3.0
05		3.5						3.0
06		3.3						3.0
07		5.0						3.1
08		6.0						3.0
09		6.8						3.0
10		6.9						3.0
11		7.4						3.0
12		8.0						3.1
13		7.9						3.0
14		7.8						3.0
15		7.9						3.1
16		7.4						3.1
17		6.6						3.1
18		5.6						3.0
19		5.0						3.0
20		4.8						3.0
21		4.4						3.0
22		4.1						3.0
23		3.9						3.0

Time: 150°E.

Length of time sweep: 1.6 Mc to 12.5 Mc in two minutes.

Average values.

Table 19

Washington, D.C. (39.0°N, 77.5°W) May, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f _{min}	F2-M3000
00	280	3.6					2.9	2.9
01	230	3.5					1.0	2.9
02	280	3.5					1.6	2.9
03	200	2.9					1.0	2.9
04	280	2.6					2.3	3.0
05	260	3.2			140	1.4	3.2	3.1
06	260	4.1	240	3.4	120	2.1	3.3	3.1
07	320	4.9	220	3.6	120	2.6	3.6	3.0
08	340	5.2	220	4.1	120	3.0	4.2	3.0
09	330	5.4	220	4.2	120	3.2	4.0	3.0
10	330	5.6	200	4.4	120	3.3	4.1	2.9
11	380	5.6	200	4.5	120	3.3	3.8	2.9
12	370	5.7	220	4.5	120	3.5	3.9	2.9
13	360	5.8	220	4.5	120	3.4	3.8	2.9
14	360	5.8	240	4.4	120	3.4	3.6	3.0
15	340	6.0	220	4.3	120	3.3	3.8	3.0
16	340	6.0	220	4.2	120	3.1	3.5	3.0
17	300	6.2	240	3.9	120	2.7	4.1	3.0
18	280	6.2	240	3.5	120	2.2	3.4	3.0
19	240	6.5			130		3.4	3.2
20	240	6.3					3.8	3.1
21	240	5.6					3.3	3.1
22	260	4.6					3.2	3.0
23	280	4.0					2.5	2.9

Time: 75°E.

Length of time sweep: 0.8 Mc to 14 Mc in two minutes.

Median values.

Table 18 (Provisional data)

Delhi, India (28.6°N, 77.2°E) March, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f _{min}	F2-M3000
00		3.4						
01		3.2						
02		3.2						
03		3.0						
04		2.8						
05		2.7						
06		3.4						
07		6.1						
08		7.0						
09		8.1						
10		8.6						
11		9.2						
12		10.0						
13		10.2						
14		10.3						
15		10.3						
16		9.8						
17		8.6						
18		8.2						
19		6.6						
20		5.2						
21		3.9						
22		3.6						
23		3.5						

Time: 75°E.

Average values.

Table 20

(Additions and corrections to previously published provisional data)

Fairbanks, Alaska (64.9°N, 147.8°W) April, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f _{min}	F2-M3000
00							3.2	
01							3.0	
02							3.2	
03							3.3	
04							3.0	
05							3.0	
06							3.0	
07							3.0	
08							3.0	
09							3.0	
10							3.0	
11						2.9		
12								
13						2.8		
14						2.8		
15						2.6		
16						2.4		
17						2.1		
18						1.9		
19						1.5		
20							2.6	
21							2.7	
22							3.0	
23							3.1	

Time: 150°W.

Length of time sweep: 1.6 Mc to 0.5 Mc in fifteen minutes.

Median values.

Table 21

(Additions and corrections to previously published provisional data)

Reykjavik, Iceland (64.1°N, 21.7°W.) April, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f°E	F2-M3000
00	-	-	-	-	-	-	3.0	-
01	-	-	-	-	-	-	3.4	-
02	-	-	-	-	-	-	3.8	-
03	-	-	-	-	-	-	3.3	-
04	-	-	-	-	-	-	3.3	3.0
05	-	-	-	-	-	-	3.1	3.1
06	215	-	-	-	-	-	3.2	3.2
07	-	-	-	-	-	-	2.6	-
08	-	-	-	-	-	-	2.6	-
09	300	-	-	-	-	-	2.6	3.0
10	-	-	-	-	-	-	2.6	-
11	-	-	-	-	-	-	2.6	-
12	-	-	-	-	-	-	2.6	-
13	-	-	-	-	-	-	2.6	-
14	325	-	-	-	-	-	2.6	3.0
15	325	-	-	-	-	-	2.6	3.0
16	310	-	-	-	-	-	2.6	3.0
17	-	-	-	-	-	-	2.6	-
18	-	-	-	-	-	-	2.6	-
19	-	-	-	-	-	-	2.6	-
20	-	-	-	-	-	-	2.6	-
21	-	-	-	-	-	-	2.6	-
22	-	-	-	-	-	-	2.6	-
23	-	-	-	-	-	-	2.6	-

Time: 150°.

Length of time sweep: 2.6 to 13.6 in one minute.

Median values.

Table 23

(Additions and corrections to previously published provisional data)

Ottawa, Canada (45.5°N, 75.6°W.) April, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f°E	F2-M3000
00	295	-	-	-	-	-	3.0	-
01	340	-	-	-	-	-	3.0	-
02	300	-	-	-	-	-	3.5	-
03	350	-	-	-	-	-	3.5	-
04	350	-	-	-	-	-	3.5	-
05	320	-	-	-	-	-	3.3	-
06	240	-	-	-	-	-	2.4	-
07	240	-	-	-	-	-	2.4	-
08	300	-	-	-	-	-	2.7	-
09	210	-	-	-	-	-	3.0	-
10	340	-	-	-	-	-	5.2	-
11	330	-	-	-	-	-	3.0	-
12	330	-	-	-	-	-	3.1	-
13	320	-	-	-	-	-	3.2	-
14	320	-	-	-	-	-	3.3	-
15	310	-	-	-	-	-	3.1	-
16	290	-	-	-	-	-	2.9	-
17	290	-	-	-	-	-	2.9	-
18	250	-	-	-	-	-	2.5	-
19	240	-	-	-	-	-	2.4	-
20	240	-	-	-	-	-	2.4	-
21	260	-	-	-	-	-	2.6	-
22	260	-	-	-	-	-	2.6	-
23	285	-	-	-	-	-	2.7	-

Time: 75°.

Length of Time Sweep: 1.93 Mc to 13.6 Mc. Manual operation.

Median values.

Table 22

(Additions and corrections to previously published provisional data)

Churchill, Canada (58.8°N, 94.2°W.) April, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f°E	F2-M3000
00	295	-	-	-	-	-	4.7	-
01	310	-	-	-	-	-	4.0	-
02	320	-	-	-	-	-	4.6	-
03	340	-	-	-	-	-	3.3	-
04	310	-	-	-	-	-	3.6	-
05	340	-	-	-	-	-	3.6	-
06	335	-	-	-	-	-	3.7	3.0
07	380	-	-	-	-	-	2.7	-
08	440	-	-	-	-	-	2.8	-
09	420	-	-	-	-	-	2.9	-
10	420	-	-	-	-	-	3.1	-
11	295	-	-	-	-	-	3.2	-
12	400	-	-	-	-	-	3.1	-
13	390	-	-	-	-	-	3.0	-
14	390	-	-	-	-	-	3.0	-
15	355	-	-	-	-	-	3.0	-
16	340	-	-	-	-	-	2.9	-
17	330	-	-	-	-	-	2.8	-
18	280	-	-	-	-	-	2.3	-
19	290	-	-	-	-	-	2.8	-
20	300	-	-	-	-	-	3.3	-
21	295	-	-	-	-	-	3.3	-
22	290	-	-	-	-	-	5.6	-
23	300	-	-	-	-	-	5.1	-

Time: 90°.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Median values.

Table 24

Boston, Massachusetts (42.4°N, 71.2°W.) April, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f°E	F2-M3000
00	275	-	-	-	-	-	2.9	-
01	270	-	-	-	-	-	1.0	-
02	275	-	-	-	-	-	1.2	-
03	275	-	-	-	-	-	1.2	-
04	270	-	-	-	-	-	1.2	-
05	260	-	-	-	-	-	1.4	-
06	258	-	-	-	-	-	2.0	-
07	230	-	-	-	-	-	2.4	-
08	330	-	-	-	-	-	2.6	-
09	340	-	-	-	-	-	2.9	-
10	335	-	-	-	-	-	3.0	-
11	343	-	-	-	-	-	3.1	-
12	342	-	-	-	-	-	3.0	-
13	336	-	-	-	-	-	3.0	-
14	335	-	-	-	-	-	3.0	-
15	335	-	-	-	-	-	2.8	-
16	300	-	-	-	-	-	2.6	-
17	270	-	-	-	-	-	2.2	-
18	250	-	-	-	-	-	1.9	-
19	240	-	-	-	-	-	1.2	-
20	240	-	-	-	-	-	3.0	-
21	250	-	-	-	-	-	3.0	-
22	262	-	-	-	-	-	3.0	-
23	280	-	-	-	-	-	2.9	-

Time: 75°.

Length of Time Sweep: 1.93 Mc to 13.6 Mc. Manual operation.

Median values.

Table 25

(Additions to previously published provisional data.)

San Francisco, Calif. (37.4°N, 122.2°W) April, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fWs	F2-M3000
00	290							
01	280						1.3	
02	280							
03	280							
04	270							
05	280							
06	250							
07	270							
08	316							
09	340							
10	340							
11	330							
12	340							
13	330							
14	320							
15	305							
16	295							
17	270							
18	240							
19	220							
20	225							
21	240							
22	260							
23	280							

Time: 120°N.

Length of time sweep: 0.8 Mc to 12 Mc in six minutes. Record centered on the hour.

Median values.

Table 27

(Additions and corrections to previously published provisional data.)

Maui, Hawaii (20.8°N, 156.5°W) April, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fWs	F2-M3000
00		5.0						
01								
02								
03								
04								
05								
06								
07							3.2	
08							3.7	
09		7.3					4.0	
10							3.9	
11							4.5	
12	330	11.3					4.5	
13							4.3	
14							4.2	
15					100		4.0	
16					120		4.1	
17		11.4	215			2.6	3.6	
18		10.6					3.6	
19		8.8					3.4	
20							2.3	3.0
21							2.9	
22							2.6	
23								

Time: 150°N.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Median values.

Table 26

(Additions and corrections to previously published provisional data.)

Baton Rouge, Louisiana (30.5°N, 91.2°W) April, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fWs	F2-M3000
00	300	3.9						
01	300							
02	300							
03	290	3.6						
04	290							
05	290							
06	250	4.7						
07	280							
08	300							
09	340							
10	350							
11	350							
12	340							
13	330							
14	320	8.4						
15	310	8.4						
16	300	8.3						
17	290							
18	250							
19	250							
20	250							
21	270							
22	310							
23	300							

Time: 90°N.

Length of time sweep: 1.9 Mc to 9.8 Mc in three minutes thirty seconds.

Median values.

Table 28

San Juan, Puerto Rico (18.4°N, 66.1°W) April, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fWs	F2-M3000
00		5.1						2.9
01		5.3						3.0
02		4.9						3.0
03		4.2						3.1
04		3.6						3.0
05		3.3						3.0
06		3.4						3.0
07	280	5.8						3.2
08	290	6.5						3.2
09	300	6.9						3.2
10	320	7.7						3.0
11	300	8.9						3.2
12	300	9.2						2.8
13	290	9.4						3.1
14	280	9.1						3.0
15	280	9.0						3.1
16	270	8.7						3.2
17	270	8.3						3.2
18	270	7.5						3.2
19	260	6.7						3.3
20		6.0						3.2
21		5.4						2.9
22		5.2						2.9
23		5.1						2.9

Time: 60°N.

Length of time sweep: 2.7 Mc to 11.4 Mc in twelve minutes. Record centered on the hour.

Median values.

Table 28

Christmas I. (2.0°N, 157.0°W)

April, 1948

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'OE	f'Es	F2-M3000
00	220	9.2					2.1	3.2
01	210	7.6					2.0	3.3
02	230	6.5						3.3
03	220	6.1						3.4
04	220	5.0						3.4
05	230	4.5						3.4
06	220	3.3						3.3
07	220	3.2			140	2.2	2.6	3.2
08	220	7.6			118	2.3	3.3	2.9
09	210	8.2					7.3	2.6
10	210	8.0	213				7.5	2.6
11	330	8.0	200	4.6			8.0	2.6
12	300	6.4	195	4.7			9.2	2.6
13	320	9.4	205	4.7			8.2	2.6
14	320	9.3	200	4.8			7.5	2.6
15	320	9.1	200	4.6			7.4	2.7
16	290	9.7	200				7.4	2.7
17	220	9.4					7.3	2.6
18	240	9.2					5.8	2.7
19	270	9.0					2.8	2.0
20	270	9.2					2.8	2.7
21	260	9.0					2.6	2.3
22	260	9.0					2.2	2.3
23	240	9.2					2.8	3.2

Time: 1500.

Length of time sweep: Manual operation.

Median values.

Table 31

Marotonga I. (21.4°S, 159.0°W)

April, 1948

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'OE	f'Es	F2-M3000
00								
01		4.3						
02								
03		3.9						
04								
05		3.7						
06								
07	243	6.5						
08								
09	254	9.1	227	4.3		3.0		
10								
11	266	10.2	230	4.7		3.3		
12								
13	285	9.4	234	4.8		3.4		
14								
15	266	10.1	233	4.4		3.1		
16								
17	243	9.0						
18								
19								
20	223	7.2						
21								
22		5.3						
23		4.7						

Time: 157.5°.

Length of time sweep: Manual operation.

Average values.

Table 30

(Additions and corrections to previously published provisional data.)

Huamayo, Peru (12°S, 76°W)

April, 1948

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'OE	f'Es	F2-M3000
00	220							
01	230							
02	240							
03	240							
04	250							
05	270							
06	260					1.4	2.5	3.1
07	240					2.4	3.0	
08	280					2.9	5.2	
09	310		230	4.4		3.3	5.5	
10	330		220	4.7		3.5	5.5	
11	340		220	4.7			5.5	
12	330		210	4.7			5.5	
13	340		210	4.7			5.5	
14	320		210	4.6			5.5	
15	300		210	4.5		3.5	5.5	
16	330		210	4.5		3.0	5.5	
17	260					2.6	3.3	
18	280					2.2	3.2	
19	300					1.1	2.1	
20	230							
21	250							
22	230							
23	230	7.5						

Time: 750.

Length of time sweep: 16 Mc to 0.5 Mc in fifteen minutes.

Median values.

Table 32

Pitcairn I. (25.0°S, 130.0°W)

April, 1948

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'OE	f'Es	F2-M3000
00								
01	256	4.47						
02								
03								
04	302	2.76						
05								
06	238	7.38	211	2.75				
07								
08	248	9.07	216	4.37				
09								
10	250	9.37	215	4.60				
11								
12	297	9.	209	4.61				
13								
14	243	9.37	223	4.01				
15								
16								
17	241	5.12						
18								
19								
20								
21	265	4.61						
22								
23								

Time: 1600.

Length of time sweep: Manual operation.

Average values.

Table 33

Trishane, N.S.W., Australia (27.5°S, 155.5°E)

April, 1945

Time	h°F2	f°F2	h°F1	f°F1	h°F	f°F	F2-M3000
00	282	4.3					3.0
01	279	4.2					3.0
02	272	4.3					3.1
03	268	4.4					3.2
04	263	5.7					3.2
05	262	5.5					3.2
06	254	4.1					3.2
07	222	5.9					3.5
08	227	6.7					3.5
09	232	7.7	213	4.4	110	2.6	3.4
10	249	8.2	210	4.6	107	3.1	3.4
11	250	7.9	204	4.6	108	3.2	3.4
12	250	7.5	199	4.6	108	3.3	3.3
13	267	8.1	197	4.6	108	3.3	3.2
14	262	8.5	212	4.5	111	3.2	3.2
15	214	8.8	216	4.2	112	2.8	3.3
16	230	7.9			120	2.5	3.4
17	219	7.2					3.4
18	217	5.1					3.4
19	207	5.1					3.2
20	200	4.8					3.1
21	205	4.5					3.1
22	201	4.5					3.1
23							3.1

Time: 1800Z.

Length of time sweep: 2.2 to 12.5 Hz in two minutes thirty seconds.

Median values.

Table 35

Christchurch, N.Z. (43.5°S, 172.0°E)

April, 1945

Time	h°F2	f°F2	h°F1	f°F1	h°F	f°F	F2-M3000
00	290	5.3					2.8
01	290	3.2					2.8
02	281	3.2					2.3
03	280	2.8					2.7
04	280	3.0					2.6
05	260	2.9					2.5
06	260	2.7					1.9
07	240	4.3			100	1.9	
08	240	5.6			103	2.4	
09	260	6.0			100	2.3	
10	260	6.4			100	2.3	
11	270	7.0			100	3.0	
12	270	7.0			100	3.0	
13	270	6.7			100	3.0	
14	285	6.7			100	2.3	
15	275	6.9			100	2.6	2.9
16	250	5.7			100	2.1	2.8
17	240	6.4			100	1.5	2.4
18	240	5.2			100	2.4	2.4
19	250	5.2			100	1.3	2.1
20	250	4.6			100	2.1	2.1
21	260	3.9			100	2.0	2.0
22	290	3.6			100	2.3	2.3
23	290	3.4			100	2.8	2.8

Time: 172.00Z.

Length of time sweep: 2.5 to 12 Hz in two minutes.

Median values.

Table 34

Hermadec Is. (29.2°S, 177.5°E)

April, 1945

Time	h°F2	f°F2	h°F1	f°F1	h°F	f°F	F2-M3000
00	297	4.26					2.9
01	293	4.16					2.9
02	291	4.09					2.9
03	276	4.11					3.0
04	270	3.7					3.0
05	263	3.89					3.0
06	251	4.00					3.2
07	237	6.31				1.14	
08	238	7.23	227	3.76	120	2.00	3.5
09	251	7.41	223	4.09	113	2.49	3.5
10	277	7.93	226	4.33	112	2.45	3.4
11	253	7.32	210	4.43	112	2.11	3.4
12	263	7.74	214	4.82	110	3.23	3.4
13	279	7.91	224	4.66	112	3.20	3.3
14	242	8.15	235	4.42	113	3.17	3.3
15	265	8.03	235	4.26	114	2.98	3.4
16	255	7.41	244	3.79	115	2.66	3.3
17	242	7.23			117	2.12	3.3
18	237	6.35					3.5
19	232	5.76					3.1
20	273	5.08					2.9
21	275	5.04					3.0
22	269	4.75					3.0
23	275	4.41					3.0

Time: Local.

Average values.

Table 36

Campbell Is. (52.5°S, 169.0°E)

April, 1945

Time	h°F2	f°F2	h°F1	f°F1	h°F	f°F	F2-M3000
00							
01							
02							
03							
04							
05	306	2.5					2.8
06							
07	240	4.3					3.4
08							
09	238	5.9	217	3.6	125	2.5	3.4
10							
11	253	6.8	210	4.0	124	2.9	3.4
12	259	7.0	218	4.2	123	2.9	3.3
13	263	6.7	221	3.7	119	2.9	3.3
14							
15	252	6.7			136	2.3	3.3
16	237	5.5					3.4
17	229	6.2					3.4
18	249	5.7					3.2
19	257	5.2					3.1
20							
21	238	4.0					2.9
22							
23	342	3.3					2.9

Time: 1800Z.

Average values.

Table 37

(Additions and corrections to previously published provisional data)

Reykjavik, Iceland (64.1°N, 21.7°W) March, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00							2.4	
01							3.3	
02							2.7	
03							3.0	
04								
05								
06								
07								
08								3.4
09								
10			-	-				
11								3.3
12		5.2						
13		5.4						3.3
14		5.6						3.2
15								
16	2.9							3.3
17			-	-				3.3
18								3.2
19		4.4						
20	-	-					3.2	-
21	-	-					3.2	-
22	-	-					3.2	-
23	-	-						-

Time: 15⁰⁰.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Median values.

Table 37

Slough, Scotland (51.5°N, 0.6°W) March, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		2.9						
01		2.3						
02		2.3						
03		2.3						
04		2.4						
05		2.0						
06		2.3						
07		3.3						
08		4.6						
09		5.0						
10		5.4						
11		5.7						
12		5.3						
13		5.3						
14		5.3						
15		5.6						
16		5.6						
17		5.6						
18		5.3						
19		5.3						
20		4.5						
21		3.3						
22		3.3						
23		3.3						

Time: 00

Median values.

Table 38

Aurghed, Scotland (57.7°N, 3.5°W) March, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		2.4						
01		2.6						
02		2.3						
03		2.3						
04		1.9						
05		1.7						
06		2.6						
07		3.5						
08		4.0						
09		4.4						
10		4.3						
11		5.2						
12		5.4						
13		5.4						
14		5.5						
15		5.4						
16		5.2						
17		5.4						
18		6.1						
19		5.1						
20		4.7						
21		3.9						
22		3.0						
23		2.3						

Time: 00.

Median values.

Table 38

(Additions and corrections to previously published provisional data)

Christiansburg, Virginia (36.8°N, 75.9°W) March, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00							2.3	
01								
02								
03								
04								
05								
06								
07					-	-	2.4	
08							3.8	
09					-	-	4.5	
10							5.4	2.5
11							5.6	
12							5.6	
13							5.3	
14							4.4	
15							4.0	
16							3.8	
17					-	-	3.0	3.1
18							2.4	3.1
19							2.3	3.1
20							2.4	
21							3.0	3.2
22							2.4	3.3
23								

Time: 18⁰⁰.

Length of time sweep: Manual operation.

Median values.

(Additions and corrections to previously published provisional data)

Marston, I., Australia (11.0°S, 159.6°E) March, 1945

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fWs	P2-M3000
00	242	7.0						5.1
01	242	7.0						3.2
02	203	5.5						3.5
03	216	4.5						3.3
04	225	3.4						
05	246	3.0						
06	250	2.7						3.1
07	225	4.5			112	1.5		
08	236	6.5	221	4.0	101	2.5		
09	277	7.2	212	4.4	102	3.0		3.3
10	301	8.2	204	4.7	100	3.3		
11	302	9.2	193	4.6	100	3.4		3.0
12	290	10.4	198	4.6	101	3.5		
13	291	10.9	192	4.8	100	3.5		
14	282	11.2	190	4.7	100	3.4		
15	261	11.2	206	4.7	101	3.3		
16	254	10.6	212	4.4	102	3.0		3.4
17	239	8.9	208	3.8	102	2.7		3.3
18	235	7.3			103	2.1		3.1
19	242	7.1						3.0
20	250	6.6						
21	260	6.7						
22	253	6.2						
23	265	6.1						2.9

Time: 1500E.

Average values.

Table 43

(Additions and corrections to previously published provisional data)

Brisbane, 3°, Australia (27.5°S, 150°E) March, 1945

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fWs	P2-M3000
00	239	4.0						
01	202							
02	266	4.3						3.2
03	257							
04	260	3.5						
05	255	3.0						
06	226	4.2						
07	217	5.3						
08	245	6.1			4.2			
09	277		211	4.4	112	3.0		
10	275		205	4.5	114	3.1		3.2
11	284	7.9	203	4.7	112	3.3		
12	275		201	4.6	111	3.3		
13	279	7.5	202	4.6	109	3.3		
14	286		209	4.5	113	3.2		
15	281		216	4.4	111	3.0		3.3
16	253				4.1	2.7		
17	237	6.9			120			
18	224							
19	237	5.6						3.1
20	267							
21	267							
22	263							
23	291							

Time: 1500E.

Average values.

Length of time sweep: 2.2 Mc to 12.5 Mc in two minutes thirty seconds.

Average values.

(Additions and corrections to previously published provisional data)

Marston, I. (21.4°S, 159.6°E) March, 1945

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fWs	P2-M3000
00								
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19	250							
20								
21								
22								
23								

Time: 157.50E.

Average values.

Table 44

(Additions and corrections to previously published provisional data)

Christchurch, N.Z. (43.5°S, 172.6°E) March, 1945

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fWs	P2-M3000
00	260	3.9					2.6	
01	250	3.7					2.6	
02	250	3.5					2.7	
03	250	3.2					2.7	
04	240	2.6					2.3	
05	230	2.4					2.2	
06	240	3.2					1.9	
07	235	4.5	210	3.4	95	2.1	2.7	
08	250	5.3	210	3.5		2.5	3.0	
09	280	5.7	200	4.0		2.7	3.0	
10	270	6.3	200	4.3		3.0	3.2	
11	270	6.3	200	4.5	90	3.1	3.4	
12	280	6.5	200	4.5	95	3.1		
13	290	6.6	200	4.5		3.1		
14	290	7.0	220	4.4	98	3.0		
15	275	6.4	220	4.1	95	3.0		
16	255	6.3	220	3.9		2.6		
17	240	5.1	230	3.4	100	2.3	2.4	
18	240	6.2			95	1.5	2.2	
19	240	6.2					3.2	
20	240	5.8					3.3	
21	250	5.2					3.6	
22	250	4.8					3.0	
23	250	4.2					2.6	

Time: 172.50E.

Average values.

Length of time sweep: 2.5 Mc to 12 Mc in two minutes.

Average values.

Table 45

(Additions and corrections to previously published provisional data)

Campbell I. (52.5°S, 169.0°E)

March, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fFa	F2-H5000
00								
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

Time: 1650E.
Average values.

Table 47

(Additions and corrections to previously published provisional data).

Cape Horn, 55°S, 68°W, 142.40E)

February, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fFa	F2-H5000
00								
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

Time: 1600E.
Average values.

Table 46

Caffir. I. (70.5°N, 68.6°W)

February, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fFa	F2-H5000
00								
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

Time: 750W.
Length of time sweep: 2 Mc to 16 Mc in one minute.
Median values.

Table 48

(Additions and corrections to previously published provisional data)

Baffin I., Canada (70.5°N, 68.6°E)

January, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fFs	F2-M3000
00								3.3
01		1.7						3.2
02		1.3						
03		1.7						2.3
04		1.9						3.2
05		1.9						3.2
06		2.1						
07		2.4						3.2
08							2.4	
09								3.2
10								3.4
11		3.3						3.3
12								3.4
13								3.4
14								3.3
15								3.3
16		3.6						3.2
17								3.3
18		3.2						3.2
19								
20		2.8						3.2
21								3.4
22		2.3						3.3
23								3.2

Time: 75°N.

Length of time sweep: 2 1/2 to 16 sec in one minute.

Median values.

Table 49

Sverdlovsk, U.S.S.R. (56.7°N, 61.1°E)

January, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fFs	F2-M3000
00	270	2.3						
01	270	2.8						
02	270	2.8						
03	270	2.8						
04	260	2.8						
05	260	2.4						
06	270	2.4						
07	280	2.2						
08	230	3.6			120	1.3		
09	210	5.2			120	1.9		
10	210	6.0			120	2.0		
11	210	6.3			120	2.1		
12	210	6.5			120	2.2		
13	210	6.3			120	2.2		
14	210	5.9			120	2.0		
15	210	5.3			120	1.3		
16	210	4.9						
17	210	3.8						
18	230	2.8						
19	250	2.2						
20	270	2.1						
21	270	2.4						
22	270	2.6						
23	280	2.6						

Time: 60°E.

f°F2 median values; others average values.

Washington, D.C.

Ionosphere Station

TABLE 50
IONOSPHERE DATA - I

RESTRICTED

National Bureau of Standards

Records measured by: S.M.O.
A.F.Hourly values of $h'F_2$ in [m] for May 1945
(Month)

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	260	260	260	260	260	280	240	280	340	300	280	(360)	320	(320) ^c	340	320	310	280	260	240	250	260	270	290
2	300	280	260	240	280	300	250	220	400	280	360	310	340	340	320	310	300	280	240	240	240	260	280	280
3	260	260	220 ^m	260	280	(280) ^m	240	240	320	320	420	380	380	(360)	360	380	370	300	320	260	260	240	260	260
4	260	260	A	A	A	A	A	280	280	320	410	360	320	360	340	300	300	300	260	(220) ^m	(240)	240	240	260
5	260	260	(280)	(260) ^c	260	240	240	(280)	(290) ^c	320	330	400	340	380	320	320	320	300	280	240	240	240	(260)	(280)
6	300	(340) ^m	340	300	320	280	240	300	320	320	440	(440) ^m	(460) ^m	(440)	400	380	340	340	(310) ^m	240	230	240	300	320
7	300	300	320	(300) ^m	340	280	340	280	280	320	(380)	340	380	360 ^m	360	340	320	320	(300)	(260) ^m	220	220	220	280
8	270	260	280	260	280	240	240	420	340	300	(380)	(360) ^m	340	320	340	320	340	300	280	(260)	230	220	(240)	280
9	300	300	300	280	280	240	260	280	240	310	320	340	320	320	320	300	320	300 ^m	260 ^m	240 ^m	230 ^m	220 ^m	220 ^m	280 ^m
10	260 ^m	260 ^m	260 ^m	260 ^m	280 ^m	280 ^m	300 ^m	560 ^m	340 ^m	460 ^m	G ^m	420 ^m	600 ^m	440 ^m	480 ^m	420 ^m	380 ^m	340 ^m	300 ^m	260 ^m	230 ^m	220 ^m	220 ^m	280 ^m
11	280 ^m	(300) ^m	340 ^m	280 ^m	300 ^m	300 ^m	260 ^m	360 ^m	540 ^m	G ^m	720 ^m	440 ^m	500 ^m	G ^m	G ^m	G ^m	540 ^m	400 ^m	360 ^m	260 ^m	230 ^m	240 ^m	280 ^m	300 ^m
12	320 ^m	320 ^m	300 ^m	280 ^m	260 ^m	C	C	C	350	350	280	360	340	340	320	320	320	280	300	240	240	240	300	340 ^m
13	320	300	280	260	300	260	220	380	G	440	320	380	380	360	340	320	320	280	280	240	240	240	260	280
14	260	300	260	280	260	(260) ^m	300	320	540	340	580	380	340	A	A	C	C	300	(280) ^m	240	240	230	240	260
15	320	300	300	300	300	240	320	300	380	380	380	380	420	340	340	320	320	300	280	240	240	240	280	280
16	300	300	300	260	A	A	380	340	360	380	380	340	340	380	380	380	340	300	300	220	240	240	(260)	280
17	300	300	300	280	300	280	320	340	340	360	360	380	400	360	360	340	340	300	260	230	230	220	280	260
18	280	280	(280) ^m	280	280	240	400	(360) ^m	(380) ^m	(400) ^m	(400) ^m	(540) ^m	400	360	360	320	380	340	300	260	220	220	240	260
19	260	260	280	260	240	280	400	(480) ^m	420	400	400	G	B	500	400	410	A	A	A	A	A	(280)	(300)	280
20	300	(320)	320	300	300	260	240	280	360	(340) ^m	340	480	380	340	360	310	320	320	280	240	240	240	260	240
21	260	260	260	240	240	240	280	400	340	360	400	380	360	410	360	380	340	310	300	260	240	240	260	260
22	260	240	260	260	240	240	280	260	(280) ^m	(290) ^m	(340) ^m	340	380	C	C	340	340	310	260	260	220	220	230	270
23	280	280	300	300	290	260	300	280	320	320	320	340	350	320	330	340	340	300	280	240	240	240	280	280
24	290	280	280	260	280	290	C	C	C	C	C	C	C	(370)	(350)	360	360	320	270	240	240	240	260	260
25	300	(310)	300	300	300	(270) ^m	(260) ^m	380 ^m	A ^m	G ^m	G ^m	600 ^m	G ^m	C ^m	C ^m	360	380	300	270	240	240	250	280	(260)
26	280	270	260	240	240	(260)	(280)	320	280	(320)	(370) ^m	(400)	(400)	C	C	(350) ^c	320	320	300	260	240	220	240	260
27	(270)	260	260	240	260	260	300	300	340	340	(340) ^c	330	320	320	(370)	330	320	300	280	240	240	(240)	240	240
28	260	240	260	260	240	240	420	380	(400)	360	380	330	570	360	340	340	340	320	280	240	240	240	260	260
29	260	280	240	220	220	240	230	380	360	(460)	460	(410) ^m	520	480	(400) ^c	390	360	320	300	260	(250)	(270)	260	(280) ^m
30	280	(300)	(300)	(320)	300	260	260	440	380	360	320	(370)	320	420	400	380	380	340	270	260	240	240	220	250
31	260	270	(300)	(310)	300	(380)	G	460	320	380	500	410	(430) ^m	(440)	380	340	350	320	(300)	(290) ^m	280	280	260	260
Sum																								
Median	280	280	280	280	280	260	260	320	340	330	380	350	370	360	360	340	340	300	250	240	240	240	260	280

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TABLE 51
IONOSPHERE DATA-2

Washington, D. C. Ionosphere Station

National Bureau of Standards
(Institution)

Hourly values of f^oF_2 in Mc for May 1945
(Month)

Records measured by: S.M.O.
A.F.

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	5.1	4.6	4.2	3.8	2.8	3.1	4.1	5.2	5.6	6.8	7.0	6.4	6.4	[6.8]C	6.8	6.7	6.8	(6.9)	6.6	6.8	6.6	6.6	5.6	5.6	5.0
2	4.9	4.5	(4.4)	3.6	2.9	3.0	3.6	4.7	5.4	6.4	6.4	6.6	6.4	6.4	6.5	6.5	6.8	6.8	6.8	6.6	6.6	5.7	5.5	5.1	
3	5.0	4.5	4.3H	3.5	2.6	(2.9)	4.5	5.2	5.3	5.6	5.4	5.6	6.0	5.8	6.0	5.6	6.3	6.2	5.8	6.5	6.3	5.9	5.1	4.8	
4	4.0	3.6	(3.4)	[2.9]A	[2.4]A	3.4	[4.8]A	5.4	5.8	5.7	5.8	6.4	6.4	6.0	6.6	(7.2)	6.4	6.7	6.5	6.4	6.6	5.6	5.1	4.6	
5	4.1	3.6	3.4	3.2J	3.2	3.3	4.7	5.6	[5.8]C	5.6	5.7	5.4	5.8	5.7	6.4	6.4	6.4	6.4	6.6	6.6	6.8	5.6	4.3	3.7	
6	3.1	(2.9)	2.8	2.9	2.8	3.2	4.8	(5.5)	5.0	5.0	5.0	[5.2]C	5.0	5.3	5.4	5.7	5.5	5.5	5.8	6.0	5.2	3.9	2.9	2.2F	
7	2.3F	2.3F	2.3	[2.5]A	2.3	3.0	4.1	5.0	5.5	5.5	5.4	5.6	5.5	5.8H	5.7	5.7	5.8	6.2	6.6	[7.1]A	(7.2)	6.0	4.4F	3.9	
8	3.7F	3.3	3.0	2.7F	2.4F	3.0	3.9	4.3	5.2	5.4	5.4	[5.6]C	5.2	6.2	5.8	5.7	5.6	6.0	6.3	(6.4)	(6.4)	5.1	3.9	3.3	
9	3.2	3.1	2.8	2.6	2.6	3.3	4.9	5.6	6.3	6.0	6.2	5.8	6.6	6.0	6.6	6.8	6.6	7.4K	8.0K	(8.4)K	(8.0)K	7.6K	4.6K	3.9K	
10	3.5K	3.1K	2.7K	2.2K	2.2K	3.1K	4.0K	4.8K	4.5K	4.2K	4.7K	4.6K	4.6K	4.8K	5.0K	5.0K	5.4K	5.5K	6.0K	6.0K	5.8K	4.8K	[3.6]K	3.1K	
11	2.9K	[1.7]A	1.6K	1.9K	(1.7)K	2.6K	3.5K	4.1K	4.2K	4.0K	4.4K	4.8K	4.5K	4.1K	4.6K	4.0K	4.4K	4.6K	4.6K	5.0K	5.0K	3.8K	2.9K	2.6K	
12	2.5K	2.5K	2.4K	(2.0)K	1.9	C	C	C	C	5.5	5.8	5.6	5.8	5.8	6.6	6.6	7.0	7.2	7.4	(7.0)	5.8	4.0	2.9	2.5	
13	2.2	2.1	1.9	1.7	1.7	3.0	3.6	3.9	4.0K	4.5	5.5	5.5	5.6	5.9	6.7	6.6	6.4	5.4	5.6	5.8	5.6	5.2	4.1	3.4	
14	3.1	2.5	2.1F	2.0F	1.9F	(2.9)	3.7	4.2	4.4	5.0	4.9	5.8	6.8	[6.1]A	(6.0)	C	C	5.9	[6.0]A	(5.9)	5.4	4.6	3.6	2.8	
15	2.2	2.1	2.4	2.4	2.4	3.1	4.0	4.5	4.4	4.8	5.1	5.5	5.7	5.7	5.7	5.6	5.6	6.0	6.2	6.6	5.9	5.5	4.8	4.0	
16	3.8	3.5	3.4	2.8	A	A	3.8	4.5	4.9	5.1	5.6	5.5	5.7	5.1	5.3	5.4	5.6	6.4	6.2	6.6	5.9	5.1	4.5	4.0	
17	3.7	3.4	2.9	2.5	2.0	3.0	4.1	4.9	4.6	5.1	5.0	5.6	5.4	5.8	5.8	5.8	6.0	6.2	6.6	5.9	5.7	4.5	3.7	3.3	
18	3.1	2.9	[2.6]C	2.3	1.9	3.2	3.9	[4.2]C	[4.4]K	[4.8]C	[4.9]C	5.0	5.5	5.8	6.0	6.3	5.8	6.3	(6.8)	(7.2)	(7.4)	5.6	4.6	4.0	
19	3.7	3.4	3.2	3.0	2.6F	2.9	3.8	4.3	4.5	4.9	5.9	4.4K	4.9	4.9	5.4	5.5	A	A	6.2	6.0	[5.4]A	4.7	3.9	3.5	
20	3.4	3.2	2.3	2.3	2.4	3.1	4.1	5.3	4.9	5.0J	5.9	(6.0)	5.5	6.4	6.0	6.3	6.0	6.0	6.5	6.6	6.4	5.8	4.9	4.6	
21	4.0	3.7	3.4	3.0	2.7	3.3	4.4	4.9	5.3	5.1	5.5	5.5	5.8	5.5	5.8	6.1	5.7	5.8	5.6	5.8	6.0	5.3	4.9	4.4	
22	3.9F	3.6F	3.3F	3.2	3.0F	3.8	4.8	5.7	[5.7]A	[5.7]A	[5.7]A	5.5	5.7	C	C	6.2	6.3	6.3	6.7	(7.0)	7.0	5.9	4.4	4.0	
23	3.8	3.3	2.9	2.8	3.0	3.6	4.8	5.4	6.2	(6.6)	(6.8)	(6.2)	6.6	6.6	(6.2)	(6.3)	(6.5)	6.4	(6.6)	(6.8)	6.7	5.7	5.2	4.8	
24	4.6	4.1	4.1	3.5	3.1	3.4	C	C	C	C	C	C	C	(5.7)	(5.7)	5.5	5.9	6.3	(6.6)	(6.6)	6.0	(5.7)	4.7	(4.7)	
25	4.2	(4.3)	(3.7)	3.5	3.3	[3.6]A	4.4K	(4.7)K	(4.7)K	(4.7)K	(4.7)K	(4.7)K	(4.7)K	C	C	5.8	5.8	5.7	5.4	5.6	5.7	4.8	(4.6)		
26	4.1	3.5	3.4	3.1	2.7F	(3.8)	4.6	5.5	(5.9)	6.5	[6.2]A	6.1	C	C	(6.3)	6.7	6.7	(6.7)	(6.7)	(5.8)	(6.6)	5.8	5.5	4.9	
27	4.7	4.4	4.2	3.9	3.5	4.7	5.1	(5.2)	(5.7)	6.3	[6.6]C	(6.6)	(6.7)	(6.7)	(6.6)	(6.4)	(6.1)	(6.6)	(6.6)	(6.7)	(6.7)	(6.3)	5.6	4.8	
28	4.7	4.4	3.6	3.6	3.3	(3.6)	4.3	4.9	5.0	5.5	5.8	5.8	6.0	(6.2)	(6.7)	6.2	6.0	(6.0)	(6.0)	6.8	6.2	(5.8)	5.6	5.1	
29	5.1	4.9	4.4	(4.1)	3.4	3.9	4.5	4.9	5.2	5.3	5.6	5.8	5.8	5.8	5.8	5.9	5.7	5.8	5.7	5.6	6.2	5.8	5.4	[4.7]A	
30	4.5	4.4	3.6F	(3.8)	3.5	3.4	4.1	4.6	5.3	5.6	6.1	6.1	6.1	6.1	6.1	5.5	5.8	6.4	6.6	(6.4)	(6.6)	(6.3)	5.7	5.1	
31	4.8	4.3	3.9	3.6	3.3	3.2	3.4K	4.3	5.0	(4.7)	5.1	(5.4)	(5.6)A	(5.7)	(5.5)	5.6	5.6	5.8	5.8	5.8	(6.0)	5.5	(4.8)F	(4.0)F	
Sum																									
Median	3.8	3.5	3.3	2.9	2.6	3.2				5.4	5.6	5.6	5.7	5.8	5.8	6.0	6.0	6.2	6.2	6.5	6.3	5.6	4.6	4.0	

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TABLE 52

IONOSPHERE DATA-3

Washington, D.C. Ionosphere Station

National Bureau of Standards
(Institution)

Half hourly values of f^oF_2 in $^{\circ}$ for May 1945
(Month)

Records measured by: S. M. O.
A. F.

TIME: 75° W MERIDIAN

Day	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330
1	4.9	4.4	3.9	3.3	(2.8)	4.0	5.0	5.6	6.4	6.8	6.4	6.8	6.8	6.8	6.7	6.6	(6.8)	6.8	6.7	6.6	5.8	5.4 ^F	5.0 ^F	4.7
2	4.6	4.4	4.1	3.2	2.7	3.5	4.2	4.9	6.3	6.2	6.7	6.4	6.4	6.4	6.6	6.7	6.8	6.4	(6.8)	6.8	6.0	5.6	5.2	5.2
3	4.8	4.5	3.8	3.0	2.4	4.0	(5.0)	(5.2)	5.4	5.4	5.5	5.5	5.9	5.9	5.8	5.6	6.2	6.1	6.4	6.6	6.2	5.4	4.8	4.2
4	3.8	3.4	3.4	(2.4)	2.5	3.9	5.0	5.6	5.6	5.6	(5.6)	6.6	5.8	(5.9)	(6.9)	6.6	6.4	6.4	6.4	6.4	5.9	5.6	4.7	4.2
5	[4.0] ^c	3.5	3.4 ^F	3.3	2.9	4.1	4.9	[5.7] ^c	5.8	[5.7] ^c	5.7	5.6	[5.7] ^c	6.4	6.4	6.4	6.4	6.4	7.0	6.8	6.2	5.0	4.2	3.4
6	2.9	[2.8] ^A	2.8	2.7	2.8	3.9	5.2	5.1	5.2	5.0	5.2	5.1	5.1	5.3	5.5	5.6	5.2	5.5	5.9	5.8	4.5	3.2	2.3 ^F	2.2 ^F
7	2.3 ^F	2.3	[2.2] ^A	2.3	2.4	3.3	4.6	5.2	5.7	5.2	5.6	5.6	5.6	5.6	5.7	5.8	6.0	6.2	7.0	(7.0)	6.4	5.5	4.1	3.8
8	3.4 ^F	3.2	2.9 ^F	2.6 ^F	2.6	3.3	4.1	4.6	5.4	5.2	5.5	5.6	6.2	6.2	5.7	5.6	6.0	6.2	6.4	6.6	5.8	4.4	3.4	3.2
9	3.1	2.9	2.6	2.6	2.6	4.0	5.0	5.8	5.7	5.9	6.2	6.4	6.4	6.6	6.5	6.6	6.6 ^K	[7.9] ^K	8.2 ^K	(8.2) ^K	5.7 ^K	4.7 ^K	4.2 ^K	3.8 ^K
10	3.3 ^K	2.8 ^K	2.5 ^K	2.3 ^K	2.2 ^K	3.5 ^K	4.2 ^K	4.4 ^K	4.8 ^K	4.7 ^K	4.6 ^K	<4.2 ^K	4.8 ^K	4.8 ^K	5.1 ^K	5.3 ^K	5.5 ^K	5.8 ^K	6.0 ^K	5.9 ^K	4.1 ^K	3.2 ^K	3.0 ^K	
11	2.4 ^K	(1.6) ^K	1.8 ^K	1.8 ^K	2.0 ^K	3.2 ^K	3.8 ^K	4.1 ^K	<4.0 ^K	4.3 ^K	4.6 ^K	(4.2) ^K	4.3 ^K	<4.1 ^K	<4.1 ^K	4.3 ^K	4.5 ^K	4.7 ^K	4.8 ^K	5.3 ^K	4.4 ^K	3.1 ^K	2.7 ^K	2.5 ^K
12	2.5 ^K	2.4 ^K	2.3 ^K	2.1 ^K	C	C	C	C	5.6	5.7	5.4	5.8	5.8	6.0	6.4	7.0	(7.2)	7.0	7.2	5.9	4.9	3.3	2.6	2.3
13	2.1	2.0	1.7	1.6	1.9	3.2	(3.6)	<4.0 ^K	<4.1 ^K	4.7	5.1	5.5	5.7	6.4	6.4	6.4	6.2	5.6	5.8	5.7	5.4	4.9	3.8	3.3
14	2.6	2.4	(2.1) ^F	1.9 ^F	(2.2)	3.5	4.0	[4.2] ^A	4.9	4.5	5.7	[6.7] ^c	[6.8] ^c	(5.8)	A	C	6.0	(6.0)	[6.0] ^A	5.8	5.3	4.4	3.2	2.5
15	2.2	(2.1)	2.4	2.4	2.2	(3.7)	4.2	4.6	4.7	(4.9)	5.1	5.1	5.6	5.5	5.6	5.6	5.7	6.2	5.8	5.8	5.0	4.5	4.1	3.8
16	3.8	3.3	3.0	2.6	A	3.5	4.2	4.9	5.5	5.7	5.5	5.5	5.5	5.0	5.4	5.5	5.8	6.4	6.6	(6.2)	[5.3] ^c	5.3	4.3	3.9
17	3.5	3.1	2.9	2.2	2.3	3.5	4.6	4.8	5.0	5.1	(5.0)	5.6	5.4	5.8	5.9	5.9	6.4	6.7	[6.2] ^c	5.8	5.1	3.9	3.6	3.1
18	3.1	2.8	2.3	2.0	2.4	3.4	[4.2] ^c	[4.2] ^c	[4.8] ^c	[4.8] ^c	[5.0] ^c	5.3	5.7	5.7	5.8	5.8	5.9	6.8	(7.0)	[7.4] ^c	6.6	5.0	4.2	3.6 ^F
19	3.4 ^F	3.2	2.8 ^F	2.8 ^F	2.7	3.4	3.9	4.5	4.8	4.6	<4.4 ^K	4.8	4.9	5.6	5.3	5.2	A	A	[6.1] ^A	[5.7] ^A	[5.0] ^A	4.2	3.6	3.5
20	3.4	2.7	2.4	2.4	2.4	3.3	5.4	4.8	5.6	5.5	(6.3)	6.0	5.8	6.2	6.2	6.0	6.2	6.2	6.8	6.5	6.3	5.2	4.7	4.3
21	3.8	3.4	3.2	2.8	2.6	3.9	4.3	5.5	5.5	5.3	5.5	5.5	5.7	5.5	5.6	5.6	5.8	[5.7] ^c	5.7	5.9	5.8	5.0	4.5	4.1
22	3.7 ^F	3.5	3.2 ^F	3.1	3.0 ^F	4.1	5.1	(5.7)	5.7	[5.7] ^c	5.7	(5.6)	C	C	(5.8)	6.4	(6.3)	6.4	(6.8)	(6.8)	6.7	5.1	4.2	3.9
23	3.5	3.1	2.9	3.0	3.1	4.2	4.8	(6.2)	(6.1)	(6.6)	(6.4)	(6.4)	(6.7)	(6.1)	(6.4)	6.4	6.4	6.4	(7.0)	(6.8)	6.0	5.4	4.8	4.7
24	4.3	4.1	3.8	3.3	3.0	C	C	C	C	C	C	C	C	(5.6)	5.7	5.6	5.8	6.6	6.6	(6.6)	5.8	5.3	(4.6)	4.3
25	(4.4)	4.1	3.6	3.3	(3.1)	4.1	4.3 ^K	[4.2] ^A	<4.2 ^K	<4.3 ^K	<4.4 ^K	(4.9) ^K	<4.5 ^K	<4.4 ^K	5.5	5.6	5.9	5.4	5.6	5.5	5.8	5.0	4.6	4.3
26	4.1	3.6	3.2	2.9	3.0	4.8	(5.4)	6.0	(6.0)	[6.4] ^A	[5.9] ^A	(5.7)	C	C	(6.3)	(6.2)	(6.5)	(6.4)	(5.8)	(6.5)	6.1	5.8	5.2	4.8
27	4.4	4.3	3.9	3.5	3.5	(4.5)	(5.1)	(5.8)	(5.7)	[6.5] ^c	(6.6)	(6.6)	[6.7] ^A	(6.3)	(6.0)	(5.8)	(5.7)	(5.8)	(6.8)	(6.7)	(6.4)	6.2	5.2	4.9
28	4.6	4.1	3.5	3.4	3.4	3.8	4.7	(5.1)	(5.4)	(5.4)	5.6	[5.5] ^c	6.0	6.3	6.3	5.9	(6.1)	(6.1)	(6.1)	(6.6)	6.0	5.7	5.2	5.4
29	5.0	4.7	4.4	3.6	3.4	4.1	4.6	4.9	5.4	(5.3)	(5.3)	[5.2] ^A	5.2	[5.5] ^c	5.8	5.8	5.8	6.0	5.6	5.8	(6.2)	(5.4)	(5.2)	4.5
30	4.4	(3.9)	[3.8] ^A	3.3	3.1 ^F	3.5	4.4	5.1	5.5	6.0	(6.0)	(6.1)	6.0	(5.5)	5.7	5.5	6.1	6.8	6.8	6.6	(6.2)	(6.4)	5.2	5.0
31	4.4	4.4	3.7	3.4	3.1	(3.6)	4.2	5.0	(5.1)	(4.9)	[5.3] ^A	A	[5.7] ^A	(5.6)	(5.4)	5.5	5.6	5.6	(5.6)	[5.7] ^A	5.7	(5.6)	(4.5) ^F	3.8
Sum																								
Median	3.7	3.3	3.0	2.8	2.7	3.7	4.6	5.0	5.4	5.4	5.5	5.6	5.7	5.8	5.8	5.8	6.0	6.2	6.4	6.5	5.8	5.2	4.3	3.9

Washington, D.C.

Ionosphere Station

National Bureau Of Standards

(Institution)

TABLE 53

IONOSPHERE DATA-4

Hourly values of f^oF_1 in km for May 1945

(Month)

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1							240	240	240	240	240	240	240	240	240	240	240	240	240					
2							240	240	240	240	240	240	240	240	240	240	240	240	240					
3							240	240	240	240	240	240	240	240	240	240	240	240	240					
4							240	240	240	240	240	240	240	240	240	240	240	240	240					
5							240	240	240	240	240	240	240	240	240	240	240	240	240					
6							240	240	240	240	240	240	240	240	240	240	240	240	240					
7							240	240	240	240	240	240	240	240	240	240	240	240	240					
8							240	240	240	240	240	240	240	240	240	240	240	240	240					
9							240	240	240	240	240	240	240	240	240	240	240	240	240					
10							240	240	240	240	240	240	240	240	240	240	240	240	240					
11							240	240	240	240	240	240	240	240	240	240	240	240	240					
12							240	240	240	240	240	240	240	240	240	240	240	240	240					
13							240	240	240	240	240	240	240	240	240	240	240	240	240					
14							240	240	240	240	240	240	240	240	240	240	240	240	240					
15							240	240	240	240	240	240	240	240	240	240	240	240	240					
16							240	240	240	240	240	240	240	240	240	240	240	240	240					
17							240	240	240	240	240	240	240	240	240	240	240	240	240					
18							240	240	240	240	240	240	240	240	240	240	240	240	240					
19							240	240	240	240	240	240	240	240	240	240	240	240	240					
20							240	240	240	240	240	240	240	240	240	240	240	240	240					
21							240	240	240	240	240	240	240	240	240	240	240	240	240					
22							240	240	240	240	240	240	240	240	240	240	240	240	240					
23							240	240	240	240	240	240	240	240	240	240	240	240	240					
24							240	240	240	240	240	240	240	240	240	240	240	240	240					
25							240	240	240	240	240	240	240	240	240	240	240	240	240					
26							240	240	240	240	240	240	240	240	240	240	240	240	240					
27							240	240	240	240	240	240	240	240	240	240	240	240	240					
28							240	240	240	240	240	240	240	240	240	240	240	240	240					
29							240	240	240	240	240	240	240	240	240	240	240	240	240					
30							240	240	240	240	240	240	240	240	240	240	240	240	240					
31							240	240	240	240	240	240	240	240	240	240	240	240	240					
Mean							240	240	240	240	240	240	240	240	240	240	240	240	240					

RESTRICTED

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1							120	120	120	120	120	120	120	[110]C	120	110	120	120	120					
2							120	120 ^H	120	110	120	120	120	120	120	110	120	120	120					
3							120	120	120	120	120	120	120	120	120	120	120	120	120					
4							140	120	120	120	120	120	120	120	120	120	120	120	120					
5							120	120	[120]C	110	110	120	120	120	110	120	120	120	120					
6							140	120	120	120	120	120	120	120	120	120	120	120	120					
7							120	120	120	120	120	120	120	120	120	120	120	120	120					
8							120	110	120	120	120	120	120	120	120	120	120	120	120					
9							120	120	120	120	120	110	120	120	120	120	120	120	120					
10						K	120 ^K	120 ^K	120 ^K	120 ^K	120 ^K	120 ^K	120 ^K	120 ^K	120 ^K	120	120	120 ^K	120 ^K	K				
11						K	120 ^K	120 ^K	120 ^K	120 ^K	120 ^K	110 ^K	120 ^K	120 ^K	120 ^K	120 ^K	120 ^K	120 ^K	120 ^K	K				
12							C	C	C	120	120	120	120	120	120	120	120	120	120					
13							120	120	120	120	120	120	120	120	120	120	120	120	120					
14							120	120	120	120	110	120	120	120	120	[120]C	120	120	120					
15							120	110	120	120	120	120	120	120	120	120	120	120	120					
16							120	120	120	120	120	120	120	120	120	120	120	120	120					
17						140 ^H	120	120	120	120	120	120	120	120	120	120	120	120	120					
18							120	120	120	120	120	120	120	120	120	120	120	120	120					
19							140	120	120	120	120	120	120	120	120	120	120	120	120					
20						140 ^H	120	120	120	120	120	120	120	120	120	120	120	120	120					
21						140	120	120	120	120	110	120	110	120	120	120	120	120	120					
22						120	120	110	120	120	110	120	110	C	C	120	120	110	110					
23							120	120	120	120	110	120	110	120	110	110	120	120	120					
24							120	120	120	120	120	[120]C	110	120	110	120	120	120	120					
25							120 ^K	120 ^K	110 ^K	110 ^K	110 ^K	120 ^K	110 ^K	120 ^K	120	120	120	120	110 ^H					
26							110	120	120	[120]H	120	110	120	110	110	120	120	120	110	110				
27						120	120	120	110	110	110	110	110	110	120	120	120	120	120					
28						140	120	110	110	120	110	120	110	120	110	110	110	120	120					
29							110	120	110	110	110	120	120	120	110	[120]C	110	120	120					
30							110	110	110	120	110	110	120	110	110	120	120	110	120					
31							120	110	110	120	110	120	110	120	120	110	120	120	120					
Sum						148	120	120	120	120	120	120	120	120	120	120	120	120	120					

[illegible]

TABLE 57 IONOSPHERE DATA-8

Washington, D.C. Ionosphere Station

RESTRICTED

National Bureau of Standards
(Institution)

Hourly values of E_s in f_m for May 1945
(Month)

Records measured by: S.M.O.
A.F.

TIME 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1						4.2 140	3.3 120	3.0 120				4.6 120	4.2 110	3.9 120	3.6 120	3.5 140	4.2 110	4.1 140	4.4 120	4.5 120	4.4 110	4.3 130		
2						3.0 120	3.0 120	3.1 120	3.3 120	4.2 120	5.7 110	6.8 110	3.9 140	3.8 120	3.9 120	4.7 120	5.1 120	5.0 120	3.7 120	3.5 120				
3						2.7 120	3.8 120	5.6 110	5.4 120	6.4 120	6.4 120	4.3 120	8	4.0 120	4.9 120	4.7 120	3.5 140	3.6 160	2.6 140					
4	2.9 140	3.1 120	4.8 110	4.6 120	3.2 120	4.2 120	5.2 120	4.3 120	3.1 120	4.7 120	4.6 120	3.8 120	3.8 120	4.2 120	3.8 120	3.7 120	3.0 120	3.0 140	4.1 120	4.2 120	3.8 120	4.2 120	3.0 120	
5	C		C			2.8 120	3.1 120	3.1 120	4.1 120	3.4 120			C		3.5 140	3.4 140	3.1 140	3.2 120	4.2 120	4.0 120	3.3 120	3.2 120	3.2 120	4.4 120
6	4.0 120	4.0 110	3.4 120	4.7 120	3.1 110	4.2 110	4.2 120	5.3 120	4.2 120	3.4 120		3.7 120	3.4 120	3.5 120	3.6 160	4.2 140	5.1 120	4.6 140	5.1 120	4.7 120	4.2 120	4.3 120	3.3 120	3.7 140
7	3.3 140	4.0 140	5.9 120	5.8 120	4.3 120	4.1 120	3.3 120	4.0 120	5.5 120	4.2 120	5.0 120			4.0 160	4.2 120	3.8 140	4.2 120	5.3 120	6.2 120	5.8 120	4.5 120	3.6 120	2.9 120	3.9 120
8						3.1 120	3.1 120	3.1 120	4.0 120	4.2 120	4.9 120	4.9 120	4.3 120				3.9 140	4.6 120	4.4 120	4.0 120	4.0 120	3.3 120	3.3 120	2.6 110
9	3.0 120	3.2 120	3.9 120	1.8 120	2.4 120	2.9 120	3.0 120	3.2 120	4.2 120	3.1 120						3.2 120			3.3 140	3.0 120				
10	2.3 140	2.3 140	2.4 140	2.3 140	1.0 140	2.8 120	5.3 120	3.1 120	3.1 120	3.1 120	3.4 120	3.4 120	4.0 140			3.4 120	2.8 140	3.0 120	3.6 120	2.8 140	2.3 120		C	
11	2.4 140	3.1 140				2.9 120	2.4 120	2.9 140	3.1 120	3.3 120	3.3 120	3.6 120	4.0 140			3.4 120	2.7 120	3.1 120	3.1 120	3.0 120	2.3 120			
12						C	C	C	4.3 120	4.2 120					3.4 120			4.2 120	4.2 120	2.7 120	2.4 120			
13						2.3 120	2.4 120	2.2 120	3.1 120	4.1 120	4.1 120	5.4 120	5.8 120				3.1 120	4.2 120	2.0 140	3.0 120	3.4 120	3.3 120	2.2 120	
14						4.1 100	4.2 110	3.0 120	4.8 120	4.3 120	3.4 120	3.4 120	3.6 120	C	5.5 120	6.6 120	4.3 120	3.6 120	7.0 120	4.5 120	4.2 120	3.2 120		
15	3.1 120	1.4 140	2.7 140	2.2 120	2.6 120	3.2 120	3.1 120	3.4 110					4.3 110	4.5 120	4.6 120	4.3 120	3.4 120	3.6 120	2.4 120	4.6 120	3.9 120	5.7 120	4.6 120	3.0 120
16	4.0 120	3.8 120	3.1 120	3.5 120	5.2 120	5.8 120	4.3 120	4.4 120	4.7 120	4.6 120	4.6 120	5.2 120	4.6 110	4.2 120	4.1 120	4.4 140	4.7 120	4.6 120	3.9 120	3.1 120	3.8 120	4.2 120	5.1 120	5.1 120
17	5.0 120	4.5 120	4.2 120	3.4 120	3.2 120	3.3 140	4.0 120	4.4 120	4.2 120	3.8 120	4.2 120	B	3.6 120	3.6 160		4.5 120	5.0 120	4.3 120	3.5 120					
18						3.1 120	3.3 120	2.9 140	4.2 120	4.2 120	3.4 140	3.5 120	3.5 120	3.6 160		4.9 120	5.1 120	4.0 120	4.1 120	1.9 120				
19	3.1 120								4.2 120	4.2 120	4.0 120	3.5 120	3.5 120	3.6 160				6.8 120	6.8 120	6.2 120	6.8 120	5.8 120	4.3 120	4.4 120
20	5.5 120	4.2 120	3.3 120			1.9 140	4.6 140	4.1 120	5.4 120	5.4 120	3.5 120	4.5 120	4.4 120	4.3 120	4.0 120	3.5 140	4.3 120	4.9 120	4.2 120	3.0 120	4.1 140	2.7 140	2.7 120	3.3 120
21									4.3 120	4.3 120	4.3 120	3.8 120	3.6 110		C	5.0 110	4.4 100	4.2 140	2.1 130	2.9 120	4.3 120	4.6 120	3.7 110	3.4 110
22	2.8 100					4.1 100	4.2 120	4.5 120	5.8 120	5.8 120	6.7 120	3.8 120	3.8 120	4.5 100		3.5 130	4.2 140	4.6 120	3.7 120	5.4 120	4.4 120	3.5 120	4.4 110	2.5 120
23	3.1 110					4.0 120	3.1 140	3.2 120	4.4 120	4.4 120	5.0 110			3.6 120		3.4 120	3.5 140	4.3 140	3.4 120	4.0 120	2.8 120	2.7 120	3.7 120	2.4 120
24	3.0 100					3.2 120	3.1 120	3.4 120	3.4 120	3.4 120	3.4 120	3.8 120	3.8 120	3.9 110	4.0 110	3.4 120	3.5 140	4.3 140	3.4 120	4.0 120	2.8 120	2.7 120	3.7 120	2.4 120
25	3.4 110	3.8 110	3.6 110	3.4 110	5.0 110	5.1 120	4.3 120	5.1 110	4.9 110	3.6 110	3.4 110			C		3.5 120	3.2 120	2.7 140	2.2 120	1.7 140	4.6 120	3.6 120	3.2 120	3.5 120
26	2.8 120	1.0 120	3.0 120	1.0 110	2.8 120	3.1 110	3.2 110	4.3 120	4.2 120	5.8 120	5.7 110	5.4 110	4.2 120	4.5 120	3.4 120		3.5 120	3.3 110	3.4 110	3.1 110	2.1 120	3.5 120	3.4 120	3.5 120
27	3.4 120	3.1 120		0.9 120			3.2 100		3.3 140			4.8 110	6.4 110	5.5 110	4.1 120	3.4 120	3.4 120	2.8 120	4.2 120	3.5 120	4.9 120	4.7 120	4.1 110	2.5 120
28	3.0 120			1.0 120	3.2 110	3.0 120	2.3 120	3.1 140	3.7 130	4.7 130	4.1 120		4.1 100		3.6 100	3.4 110	3.1 120	2.7 120	2.7 120	2.9 120	4.7 120	2.8 120		
29	1.0 120	3.1 110	2.5 120	3.3 110	3.2 110	3.2 100	3.4 110	3.7 110	4.5 110	5.5 110	4.9 110	5.5 120	4.3 140	4.1 150	4.1 140	4.7 140	3.5 140	3.1 140	2.6 140	2.8 120	5.7 120	5.9 120	5.1 120	5.4 110
30	5.3 110	5.0 110	4.9 110	5.8 110	4.0 110	3.2 110	3.9 100	3.7 110	4.3 110	5.1 110	5.7 110	6.5 110	5.9 110	5.2 110	4.8 110	4.2 120	3.7 160	3.4 140	3.4 140					
31		2.7 120	3.8 120	5.3 110	2.3 120	3.2 120	3.4 120	4.0 110	4.1 110	4.3 110	7.6 140	6.4 120	7.6 120	6.3 140	7.6 140		4.4 140	5.9 120	6.4 120	6.0 110	5.6 120	4.6 120	3.5 120	3.4 120
Sum																								
Median	2.9	1.0	1.6	1.0	2.3	3.2	3.3	3.6	4.2	4.0	4.1	3.8	3.9	3.8	3.6	3.8	3.5	4.1	3.4	3.4	3.8	3.3	3.2	2.5

TABLE 58

IONOSPHERE DATA-9

Washington, D.C.

Ionosphere Station

National Bureau of Standards

(Institution)

Hourly values of F₂-M(3000)F₂ for May 1945

Records measured by: S.M.O

A.F

RESTRICTED

TIME 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	1.9	2.0	1.9	2.0	1.9	2.0	2.1	2.1	2.0	2.1	2.2	1.9	2.1	C	2.0	2.0	2.1	(2.2)	2.1	2.2	2.2	(2.0)	2.0	1.8
2	1.8	1.8	(1.4)	1.9	1.9	2.0	2.1	2.0	1.8	2.2	(1.8)	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	1.9	1.8	1.9	1.9
3	1.9	2.0	1.9 ^H	2.0	2.0	A	2.2	(2.3)	(1.8)	2.2	1.8	(1.9)	1.9	2.0	2.0	2.0	1.9	2.0	2.0	2.0	1.9	2.0	2.0	2.0
4	1.9	2.1	A	A	A	A	A	2.2	2.4	2.2	2.0	2.0	2.1	2.0	2.0	(2.0)	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.0
5	1.9	2.0	1.9	J	2.0	2.3	2.4	2.4	C	2.1	2.4	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.2	2.2	2.0	2.1	2.1
6	1.9	A	1.9	1.9	1.9	2.0	2.1	2.3	1.9	1.9	(1.8)	C	B	1.7	1.8	1.9	2.0	1.9	(2.1)	2.1	1.9	2.1	1.9	1.9 ^F
7	1.8 ^F	1.9 ^F	1.8	A	1.8	2.0	2.0	2.3	2.3	2.1	1.7	2.1	1.9	1.9 ^H	2.0	2.0	2.1	2.0	2.0	A	(2.0)	2.1	2.2 ^F	1.9
8	2.0 ^F	2.0	2.0	(1.9) ^F	(1.9) ^F	2.1	2.1	1.8	2.0	2.1	1.9	B	2.0	2.0	2.0	2.0	2.0	2.1	2.0	(2.2)	(2.2)	2.1	2.0	2.0
9	1.9	2.0	2.0	2.0	2.0	2.2	2.3	2.3	2.2	2.1	2.1	2.1	2.0	2.1	2.1	1.8 ^K	1.8 ^K	1.9 ^K	1.9 ^K	J ^K	(2.1) ^K	(2.3) ^K	2.0 ^K	1.9 ^K
10	2.0 ^K	2.1 ^K	1.9 ^K	1.9 ^K	1.9 ^K	2.0 ^K	2.2 ^K	1.5 ^K	2.1 ^K	1.8 ^K	G ^K	1.9 ^K	1.6 ^K	1.8 ^K	1.7 ^K	1.8 ^K	1.8 ^K	1.9 ^K	1.9 ^K	2.1 ^K	2.3 ^K	2.2 ^K	C ^K	1.8 ^K
11	2.0 ^K	A ^K	1.9 ^K	1.9 ^K	1.9 ^K	1.9 ^K	2.0 ^K	2.1 ^K	1.6 ^K	G ^K	1.4 ^K	1.8 ^K	1.7 ^K	1.5 ^K	G ^K	G ^K	1.6 ^K	1.8 ^K	1.8 ^K	2.1 ^K	2.1 ^K	(2.1) ^K	1.9 ^K	1.8 ^K
12	1.8 ^K	1.8 ^K	1.9 ^K	(2.0) ^K	2.2	C	C	C	C	2.0	2.3	1.9	2.1	2.1	2.1	2.1	2.0	2.0	2.0	(2.2)	2.0	2.0	1.9	1.8
13	1.9	1.9	2.0	2.0	2.0	2.1	2.3	2.0	G	1.8	2.1	1.9	1.9	1.9	1.9	1.9	2.1	2.0	2.1	2.2	2.1	2.0	2.1	2.1
14	2.1	1.9	2.1 ^F	2.0 ^F	2.1 ^F	A	2.2	(2.1)	1.6	2.1	(1.6)	2.0	1.9	A	A	C	C	2.1	A	2.3	2.1	2.0	2.2	2.1
15	2.0	2.0	2.0	2.0	1.9	2.1	2.1	2.5	2.1	1.9	1.8	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.1	2.0	2.0	1.9
16	1.9	2.0	2.0	2.1	A	A	2.0	1.9	2.1	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.2	2.1	2.1	2.1	2.1	2.1	1.9
17	1.9	2.0	1.9	1.9	1.9	2.1	2.1	2.0	2.0	1.8	1.7	1.9	1.9	1.9	2.0	2.0	2.0	2.2	2.2	2.3	2.1	2.1	2.0	2.0
18	2.0	1.9	C	1.8	2.0	2.1	1.9	C	C	C	C	1.6	1.9	2.0	1.9	2.1	1.9	1.9	(2.0)	(2.2)	2.1	2.2	2.0	2.0
19	2.0	2.0	1.9	2.0	2.2 ^F	1.9	1.9	A	1.9	1.9	1.8	G	B	1.7	1.8	1.7	A	A	A	A	A	(4.0)	2.0	2.0
20	1.9	1.9	1.8	1.9	1.8	2.0	2.1	2.4	2.0	J	2.1	1.7	1.9	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.0	2.1	2.0	2.0
21	1.9	2.0	1.9	2.1	2.2	2.1	2.1	1.9	2.0	2.0	1.8	2.0	2.0	1.8	2.0	2.0	2.0	2.0	2.0	(2.3)	2.3	2.2	2.1	1.9
22	2.0 ^F	2.0 ^F	2.1 ^F	2.1	2.1 ^F	2.3	2.3	2.0	A	A	A	2.1	2.0	C	C	2.0	2.0	2.0	2.0	(2.2)	2.3	2.2	2.1	1.9
23	1.9	1.9	1.8	1.8	1.8	2.2	2.2	2.3	2.0	(2.1)	(2.2)	(2.0)	(2.0)	2.1	(2.1)	2.0	(2.0)	2.1	(2.2)	(2.2)	2.1	2.0	1.8	1.8
24	1.8	1.8	1.9	(2.1)	1.8	2.0	C	C	C	C	C	C	C	C	(2.0)	2.0	1.9	2.0	(2.2)	(2.3)	2.2	(2.2)	(2.0)	(2.0)
25	1.8	(2.0)	(2.0)	(2.0)	2.0	A	(2.3) ^K	(2.0) ^K	A ^K	G ^K	G ^K	1.6 ^K	G ^K	C ^K	(2.1)	1.9	2.0	2.2	2.0	2.1	1.9	2.0	1.9	(2.0)
26	1.9	2.0	2.0	2.0	2.0 ^F	(2.3)	2.2	2.1	(2.3)	(2.1)	A	(1.9)	C	C	(2.0)	C	2.1	2.0	C	(2.3)	(2.2)	2.2	1.9	2.0
27	1.9	1.9	2.0	2.1	2.1	2.2	2.2	(2.3)	(2.0)	1.9	C	(2.1)	(2.2)	(2.2)	(2.0)	(2.2)	(2.1)	(2.0)	J	(2.3)	(2.1)	(2.2)	2.0	2.0
28	2.0	2.0	2.0	2.1	2.2	(2.4)	1.8	1.9	(1.9)	2.0	2.0	1.9	1.9	(2.0)	(2.0)	2.0	2.0	2.0	(2.2)	(2.1)	(2.2)	2.1	1.8	2.0
29	1.9	1.9	2.1	(2.0)	2.1	2.2	2.2	1.9	2.0	(1.7)	(1.7)	A	1.6	1.6	C	1.9	1.9	2.0	2.0	2.1	2.1	2.0	2.1	A
30	1.9	(2.0)	(2.0) ^H	(1.8)	(2.1)	2.1	(2.1)	1.8	2.0	2.0	2.1	(2.0)	2.1	1.8	1.9	1.9	1.9	1.9	1.9	2.2	(2.0)	(2.2)	2.1	2.0
31	1.9	1.9	(1.9)	(1.9)	1.8	1.8	G	1.8	2.0	2.0	1.7	(1.8)	A	1.8	(1.9)	2.0	2.0	2.1	2.1	A	2.2	(2.0)	(2.1) ^F	(2.1) ^F
Sum	1.9	2.0	1.9	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.1	2.0	2.0
Median	1.9	2.0	1.9	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.1	2.0	2.0

RESTRICTED

TABLE 59
IONOSPHERE DATA - 10

Ionosphere Station

Washington, D. C.

National Bureau of Standards

Hourly values of F2-M3000 for

May 1945

Records measured by: S. M. O.

(Institution)

(Month)

A. F.

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	2.8	3.0	2.8	2.9	2.9	3.0	3.1	3.0	3.0	3.2	3.2	2.9	3.1	C	3.0	3.0	3.0	(3.1)	3.1	3.2	3.1	(3.0)	2.9	2.7
2	2.7	2.7	(2.8)	2.9	2.9	2.9	3.1	2.8	2.8	3.2	(2.8)	3.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.2	2.9	2.8	2.8	2.9
3	2.9	3.0	2.9H	3.0	3.0	A	3.2	(3.3)	(2.8)	3.2	2.7	(2.9)	2.9	2.9	2.9	3.0	2.9	2.9	3.0	3.0	2.8	3.0	3.0	3.0
4	2.8	3.0	A	A	A	A	A	3.2	3.4	3.2	2.9	3.0	3.1	3.0	3.0	(3.0)	3.1	3.0	3.0	3.1	3.0	3.0	3.0	2.9
5	2.9	2.9	2.9	J	3.0	3.3	3.4	3.4	C	3.1	3.4	2.9	3.0	3.0	3.1	3.1	2.9	2.9	3.1	3.3	3.2	3.0	3.1	3.1
6	2.9	A	2.8	2.9	2.8	3.0	3.1	3.3	2.9	2.9	(2.8)	C	B	2.6	2.8	2.9	2.9	2.8	(3.0)	3.1	2.8	3.1	3.2F	2.8
7	2.8F	2.8F	2.8	A	2.8	2.9	3.0	3.3	3.3	3.1	2.6	3.1	2.9	2.9H	3.0	3.0	3.0	3.0	3.0	A	(3.0)	3.1	3.2F	2.8
8	2.9F	3.0	3.0	(2.9)F	(2.8)F	3.1	3.1	2.8	3.0	3.1	2.9	B	2.9	3.0	3.1	3.1	3.0	3.0	3.0	(3.2)	(3.1)	3.1	3.0	2.9
9	2.9	2.9	2.9	3.0	3.0	3.2	3.2	3.3	3.2	3.1	3.1	3.1	3.0	3.1	3.1	3.1	3.0	3.0K	(3.0)K	J K	(3.1)K	(3.3)K	3.0K	2.8K
10	3.0K	3.1K	2.9K	2.9K	2.8K	2.9K	3.2K	2.4K	3.1K	2.7K	G K	2.8K	2.4K	2.7K	2.5K	2.8K	2.7K	2.8K	2.8K	3.1K	3.3K	3.1K	C K	2.7K
11	2.9K	A K	2.8K	2.8K	(2.9)K	2.8K	3.0K	3.0K	2.4K	C K	2.1K	2.7K	2.6K	G K	G K	G K	2.4K	2.8K	2.7K	3.1K	(3.1)K	(3.1)K	2.8K	2.7K
12	2.7K	2.7K	2.9K	(3.0)K	3.3	C	C	C	C	3.0	3.3	2.8	3.0	3.1	3.1	3.2	3.0	3.0	3.0	(3.2)	3.0	2.9	2.8	2.7
13	2.8	2.8	2.9	2.9	2.9	3.0	3.3	3.0	G	2.7	3.2	2.9	2.8	2.8	2.9	2.8	3.0	3.0	3.1	3.2	3.1	3.1	3.0	3.1
14	3.1	2.8	3.1F	3.0F	3.1F	A	3.1	(3.1)	2.5	3.1	(2.4)	3.9	2.8	A	A	C	C	3.1	A	(3.3)	3.1	2.9	3.2	3.1
15	2.9	3.0	2.9	3.0	2.8	3.1	3.1	3.5	3.1	2.9	2.7	3.0	2.9	2.9	3.1	3.2	3.1	3.2	3.2	3.2	3.0	3.0	2.9	2.9
16	2.9	3.0	2.9	3.1	A	A	2.9	2.8	3.1	3.0	2.9	3.1	3.1	3.0	2.9	3.0	3.0	3.2	3.1	3.1	3.1	3.1	3.0	2.9
17	2.9	3.0	2.9	2.9	2.4	3.0	3.1	3.0	3.0	2.7	2.6	2.9	2.8	3.0	3.0	3.0	3.0	3.2	3.2	3.3	3.1	3.0	3.0	3.0
18	3.0	2.9	C	2.7	3.0	3.1	2.9	C	C	C	C	2.5	2.9	3.0	2.8	3.0	2.8	2.8	(3.0)	(3.2)	3.1	3.2	3.0	3.0
19	2.9	3.0	2.9	2.9	3.3F	2.9	2.8	A	2.8	2.9	2.8	G	B	2.6	2.7	2.6	A	A	A	A	A	(3.0)	2.9	3.0
20	2.8	2.8	2.8	2.8	2.7	2.9	3.1	3.4	3.0	J	3.0	2.6	2.9	2.9	2.9	3.0	3.0	2.9	3.1	3.1	3.0	3.1	2.9	2.9
21	2.9	2.9	2.9	3.1	3.2	3.1	3.1	2.8	3.0	2.9	2.8	3.0	2.9	2.8	2.9	2.9	3.0	3.0	3.1	(3.3)	3.3	3.2	3.1	2.9
22	3.1F	3.0F	3.0F	3.1	3.1F	3.3	3.3	3.0	A	A	A	3.1	3.0	C	C	2.9	3.0	3.0	3.1	(3.2)	3.2	2.9	2.7	2.8
23	2.9	2.8	2.7	2.7	2.8	3.3	3.1	3.3	3.0	(3.1)	(3.2)	(3.0)	(3.0)	3.1	(3.1)	3.0	(3.0)	3.1	(3.2)	(3.2)	3.2	2.9	2.7	2.8
24	2.6	2.7	2.9	(3.1)	2.8	3.0	C	C	C	C	C	C	C	C	C	2.9	2.9	3.0	(3.2)	(3.4)	3.2	(3.1)	(3.2)	(2.9)
25	2.8	(3.0)	(3.0)	(3.0)	3.0	A	(3.4)K	(2.9)K	A K	G K	G K	2.4K	G K	C K	C K	2.8	2.9	3.2	3.0	3.1	2.9	3.0	2.9	(3.1)
26	2.8	2.9	3.0	2.9	3.0F	(3.3)	3.2	3.0	(3.3)	(3.1)	A	(2.9)	C	C	(3.0)	C	3.1	3.0	C	(3.3)	(3.2)	3.2	2.8	3.0
27	2.9	2.9	3.0	3.0	3.1	3.3	3.2	(3.3)	(3.0)	2.9	C	(3.1)	(3.2)	(3.2)	(3.0)	(3.1)	(3.1)	(3.0)	J	(3.3)	(3.1)	(3.2)	3.0	2.9
28	3.0	2.9	3.0	3.0	3.2	3.4	2.8	2.9	(2.9)	3.0	3.0	2.9	2.8	(3.0)	(3.0)	3.0	2.9	(3.1)	(3.2)	(3.1)	(3.2)	3.1	2.8	2.9
29	2.9	2.9	3.1	(2.9)	3.0	3.1	3.2	2.8	2.9	(2.5)	(2.6)	A	2.5	2.5	C	2.8	2.8	3.0	3.0	3.0	3.0	2.9	3.1	A
30	2.8	(3.0)	(3.0)F	(2.8)	(3.0)	3.1	(3.0)	2.6	2.9	3.0	3.1	(2.9)	3.1	2.8	2.9	2.8	2.8	2.8	3.2	(3.0)	(3.0)	(3.2)	3.1	3.0
31	2.8	2.8	(2.9)	(2.9)	2.8	2.8	G	2.7	3.2	2.9	2.5	(2.8)	A	2.8	(2.9)	3.0	3.0	3.2	3.0	A	3.3	(3.0)	(2.9)F	(3.1)F
Sum																								
Mean	2.9	2.9	2.9	2.9	3.0	3.1	3.1	3.0	3.0	3.0	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0	3.2	3.1	3.1	3.0	2.9

TABLE 60 IONOSPHERE DATA-11

RESTRICTED

Washington, D.C.

(Location)

National Bureau Of Standards

(Institution)

Ionosphere Station

Hourly values of F2-M3000 for

May 1945
(Month)

Records measured by: S. M. O.
A. F.

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	3.0	3.2	3.0	3.1	3.1	3.2	3.3	3.2	3.2	3.4	3.4	3.1	3.3	C	3.2	3.2	3.2	(3.3)	3.3	3.4	3.4	(3.2)	3.1	2.9
2	2.9	2.9	(3.0)	3.1	3.1	3.1	3.3	3.0	3.0	3.4	(3.0)	3.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.1	3.0	3.0	3.1
3	3.1	3.2	3.1 ^M	3.2	3.2	A	3.4	(3.5)	3.4	3.4	2.9	(3.1)	3.1	3.1	3.1	3.2	3.1	3.1	3.1	3.2	3.0	3.2	3.2	3.2
4	3.0	3.2	A	A	A	A	3.4	3.6	3.4	3.4	3.1	3.2	3.3	3.2	3.2	(3.2)	3.3	3.2	3.2	3.3	3.2	3.2	3.2	3.1
5	3.1	3.1	3.1	J	3.2	3.5	3.6	C	3.3	3.6	3.1	3.2	3.2	3.2	3.3	3.3	3.1	3.1	3.3	3.5	3.4	3.2	3.3	3.3
6	3.1	A	3.0	3.1	3.0	3.2	3.3	3.5	3.1	3.1	(3.0)	C	B	2.8	3.0	3.1	3.1	3.0	(3.2)	3.3	3.0	3.3	3.0	3.1 ^F
7	3.0 ^F	3.0 ^F	3.0	A	3.0	3.1	3.2	3.5	3.5	3.3	2.8	3.3	3.1	3.1 ^H	3.2	3.2	3.2	3.2	3.2	A	(3.2)	3.3	3.4 ^F	3.0
8	3.1 ^F	3.2	3.2	(3.1) ^F	(3.0) ^F	3.3	3.3	3.0	3.2	3.3	3.1	B	3.1	3.2	3.2	3.2	3.2	3.3	3.2	(3.4)	(3.3)	3.3	3.2	3.1
9	3.1	3.1	3.1	3.2	3.2	3.4	3.4	3.5	3.4	3.3	3.3	3.3	3.2	3.3	3.3	3.3	3.2	3.2 ^K	(3.2) ^M	J ^K	(3.3) ^K	(3.5) ^K	3.2 ^K	3.0 ^K
10	3.2 ^K	3.3 ^K	3.1 ^K	3.1 ^K	3.0 ^K	3.1 ^K	3.4 ^K	2.6 ^K	3.3 ^K	2.9 ^K	G ^K	3.1 ^K	2.6 ^K	2.9 ^K	2.7 ^K	3.0 ^K	2.9 ^F	3.0 ^K	3.0 ^K	3.3 ^K	3.5 ^K	3.3 ^K	C ^K	2.9 ^K
11	3.1 ^K	A ^K	3.0 ^K	3.0 ^K	(3.1) ^K	3.0 ^K	3.2 ^K	3.2 ^K	2.6 ^K	G ^K	2.3 ^K	2.9 ^K	2.8 ^K	G ^K	G ^K	G ^K	2.6 ^K	3.0 ^K	3.0 ^K	3.3 ^K	3.3 ^K	(3.3) ^K	3.0 ^K	2.9 ^K
12	3.0 ^K	2.9 ^K	3.1 ^K	(3.2) ^K	3.5	C	C	C	C	3.2	3.5	3.0	3.2	3.3	3.3	3.4	3.2	3.2	3.2	(3.4)	3.2	3.1	3.0	2.9
13	3.0	3.0	3.1	3.1	3.1	3.2	3.5	3.2	G	2.9	3.4	3.1	3.0	3.0	3.1	3.0	3.2	3.2	3.3	3.4	3.3	3.3	3.2	3.3
14	3.3	3.0	3.3 ^F	3.2 ^F	3.3 ^F	A	3.3	(3.3)	2.7	3.3	(2.6)	3.1	3.0	A	A	C	C	3.3	A	3.5	3.3	3.1	3.4	3.3
15	3.1	3.2	3.1	3.2	3.0	3.3	3.3	3.7	3.3	3.1	2.9	3.2	3.1	3.1	3.3	3.4	3.3	3.4	3.4	3.4	3.2	3.2	3.2	3.1
16	3.1	3.2	3.1	3.3	A	A	3.1	3.0	3.3	3.2	3.1	3.3	3.3	3.2	3.1	3.2	3.2	3.4	3.3	3.3	3.3	3.3	3.2	3.1
17	3.1	3.2	3.1	3.1	3.1	3.2	3.3	3.2	3.2	2.9	2.8	3.1	3.0	3.2	3.2	3.2	3.2	3.4	3.4	3.5	3.3	3.2	3.2	3.2
18	3.2	3.1	C	2.9	3.2	3.3	3.1	C	C	C	C	2.7	3.1	3.2	3.0	3.2	3.0	3.0	(3.2)	(3.4)	3.3	3.4	3.2	3.2
19	3.1	3.2	3.1	3.1	3.5 ^F	3.1	3.0	A	3.0	3.1	3.0	G	B	2.8	2.9	2.8	A	A	A	A	A	(3.2)	3.1	3.2
20	3.0	3.0	3.0	3.0	2.9	3.1	3.3	3.6	3.2	J	3.2	2.8	3.1	3.1	3.1	3.2	3.2	3.1	3.3	3.3	3.2	3.3	3.1	3.1
21	3.1	3.1	3.1	3.2	3.4	3.3	3.3	3.0	3.2	3.1	3.0	3.2	3.1	3.0	3.1	3.1	3.2	3.3	3.2	3.3	3.2	3.3	3.2	3.2
22	3.3 ^F	3.2 ^F	3.2 ^F	3.3	3.3 ^F	3.5	3.5	3.2	A	A	A	3.3	3.2	C	C	3.1	3.2	3.2	3.4	(3.5)	3.5	3.4	3.3	3.1
23	3.1	3.0	2.9	2.9	3.0	3.5	3.3	3.5	3.2	(3.3)	(3.4)	(3.2)	(3.2)	3.3	(3.3)	3.2	(3.2)	3.3	(3.4)	(3.4)	3.4	3.1	2.9	3.0
24	2.8	2.9	3.1	(3.3)	3.0	3.2	C	C	C	C	C	C	C	C	(3.3)	3.2	3.1	3.2	(3.4)	(3.5)	3.4	(3.3)	(3.4)	(3.2)
25	3.0	(3.2)	(3.2)	(3.2)	3.2	A	(3.4) ^K	(3.2) ^K	A ^K	G ^K	G ^K	2.6 ^K	G ^K	C ^K	(3.2)	3.0	3.2	3.4	3.2	3.3	3.1	3.2	3.1	(3.3)
26	3.0	3.1	3.2	3.2	3.2 ^F	(3.5)	3.4	3.3	(3.5)	(3.3)	A	(3.1)	C	C	(3.2)	C	3.3	3.2	C	(3.5)	(3.4)	3.4	3.0	3.2
27	3.1	3.1	3.2	3.2	3.3	3.5	3.4	(3.5)	(3.2)	3.1	C	(3.3)	(3.4)	(3.4)	(3.2)	(3.3)	(3.4)	(3.2)	J	(3.5)	(3.4)	(3.4)	3.3	3.1
28	3.2	3.1	3.2	3.2	3.4	(3.6)	3.0	3.1	(3.1)	3.2	3.2	3.1	(3.2)	(3.2)	(3.2)	3.2	3.1	(3.4)	(3.4)	(3.3)	(3.4)	3.3	3.0	3.2
29	3.1	3.1	3.3	(3.1)	3.2	3.3	3.4	3.0	3.1	(2.7)	(2.9)	A	2.7	2.8	C	3.0	3.1	3.2	3.2	3.2	3.2	3.1	3.3	A
30	3.0	(3.2)	(3.3) ^F	(3.0)	(3.2)	3.3	(3.2)	2.9	3.1	3.2	3.3	(3.2)	3.4	3.0	3.1	3.0	3.0	3.0	3.4	(3.2)	(3.2)	(3.4)	3.4	3.2
31	3.0	3.0	(3.1)	(3.1)	3.0	3.0	G	2.9	3.4	3.1	2.8	(3.1)	A	3.0	(3.2)	3.2	3.2	3.4	3.2	A	3.5	(3.2)	(3.2) ^F	(3.3) ^F
Sum																								
Median	3.1	3.1	3.1	3.1	3.2	3.3	3.3	3.2	3.2	3.2	3.0	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.4	3.3	3.3	3.2	3.1

TABLE 61
IONOSPHERE DATA -12May 1945
(Month)

Hourly values of FI-M3000 for

Time: 75°W MERIDIAN

Washington, D.C. _____ Ionosphere Station

National Bureau Of Standards

(Institution)

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1							3.6	3.6	3.6	3.5	3.5	3.7	3.8	C	3.6	3.5	3.6							
2								3.3 ^H	3.6	3.9	A	3.5	3.6	3.6	3.6	3.5	3.4	A						
3									(3.5)	3.6	3.7	3.5	3.8	3.8	3.4	3.4	3.4	3.4	3.5					
4									3.7	3.6	3.5	3.6	3.7	3.7	3.6	(3.6)	3.6							
5							3.6	C	3.6	3.5	3.7	3.5 ^H	B	3.7	3.5	3.5	3.5	3.6						
6								3.7	3.5	3.7	(3.9)	C	B	3.6 ^H	3.7	(3.4)	3.5	A						
7						3.4	3.6	A	3.7	3.9	(3.4)	3.6 ^H	A	3.5	3.5	3.4	A							
8							3.6	3.5	3.7	3.5	B	3.6	3.7	3.8	3.6	3.5	3.4	A						
9						(3.8)	3.7	3.6	3.7	3.8	3.8	3.8	3.8	3.8	3.5	3.5	3.3	3.5 ^K	K					
10						3.6 ^K	3.6 ^K	3.7 ^K	3.6 ^K	3.9 ^K	3.8 ^K	3.8 ^K	3.7 ^K	3.5 ^K	3.5 ^K	3.6 ^K	3.6 ^K	3.5 ^K	3.5 ^K					
11						K	3.7 ^K	3.6 ^K	3.7 ^K	3.5 ^K	3.6 ^K	3.4 ^H	3.7 ^K	3.8 ^K	3.8 ^K	3.5 ^K	3.4 ^K	3.4 ^K	3.4 ^K					
12						C	C	C	3.9	3.7	3.6	3.7	3.5	3.6	3.5	3.4	3.6	A						
13							3.7	3.7	3.6	3.9	3.5	3.6	3.8	3.7	3.5	3.5	3.6	3.6						
14								3.5	3.5	3.5	3.8	B	A	A	C	C	3.5	A						
15							3.6	3.8	3.8 ^H	3.7	4.0	3.7	3.8	3.8	3.8	B	3.5							
16						3.5	3.8	3.5	3.5	3.8	3.8	3.9	3.6	3.6	3.6	3.5	A	3.5	(3.7)					
17							3.6	3.6	3.7	3.7	3.6	3.6	3.6	3.6	3.6	3.5	3.4	3.4	3.4					
18						3.4 ^H	C	C	C	C	C	3.7	3.6	3.7	3.6	3.5	3.4	3.4	3.4					
19						3.5	A	A	4.0	3.5 ^H	3.8	3.6	3.6	3.6	3.4	3.6	A	A	A					
20							3.7	4.0	3.8	3.9	3.8 ^H	3.9	3.7	3.6	3.6	3.6	3.7	3.5	3.6					
21							3.4	3.5	3.7	3.9	3.7	3.7	3.7	3.7	3.7	3.6	3.5	3.5	3.6					
22							3.6	A	A	A	3.7	(3.9)	C	C	C	3.6	3.4	3.4	3.6					
23						(3.6)	(3.4) ^H	3.6	3.8	3.7	3.9	(3.8) ^H	3.7	3.6	3.6	3.6	3.5	A	(3.6)					
24						C	C	C	C	C	C	C	(4.0)	C	3.7	3.4	3.4	3.3	(3.6)					
25						K	A ^K	A ^K	3.9 ^K	A ^K	3.9 ^K	(3.7) ^K	C ^K	(3.5)	3.5	3.6	3.5	(3.6)	(3.6)					
26							3.4	3.6	A	A	A	(4.3)	A	C	C	3.5	3.4							
27						(3.6)	(3.6)	C	4.0	3.9	(3.8)	(3.9)	A	(3.7)	(3.6)	3.6	3.6							
28						3.3	3.7	(3.6)	3.7	(4.0)	3.8	3.7	3.8	3.5	3.6	3.5	(3.4)	(3.5)						
29							3.4	3.6	A	(4.1)	A	3.9	(3.7)	C	3.6	3.6	3.5 ^H	3.6						
30							3.3	3.5	3.6	A	A	A	(3.8)	3.7	3.6	3.5	3.8	3.6						
31						3.6	3.4	3.6	4.0	(4.2)	A	A	A	(3.3)	(3.7)	4.0	A	A	A					
Sum																								
Median																								

Table 63

Ionospheric Storminess, May, 1945

Day	Ionospheric Character*		Principal Storms		Magnetic Character**	
	00-12 GCT	12-24 GCT	Beginning GCT	End GCT	00-12 GCT	12-24 GCT
May						
1	1	0			2	2
2	1	1			3	2
3	0	3			2	2
4	1	1			2	1
5	1	2			2	1
6	3	3			1	2
7	3	2			0	1
8	2	2			2	1
9	3	1	2130	— /	1	3
10	4	5	—	—	2	2
11	4	6	—	—	3	3
12	4	2	—	0900	2	2
13	3	3	—		2	2
14	3	3			1	2
15	3	2			1	1
16	2	2			1	2
17	2	1			2	2
18	3	3			1	3
19	2	3			2	2
20	3	2			2	1
21	0	1			1	2
22	1	1			1	1
23	2	2			2	1
24	2	2			2	2
25	2	4	1100	1900	3	2
26	1	1			2	2
27	0	3			1	2
28	0	1			1	2
29	0	3			2	2
30	2	1			2	3
31	1	2			2	2

*Ionosphere character figure (I-figure) for ionospheric storminess at Washington, D.C., during 12-hour period, on an arbitrary scale of 0 to 9, 9 representing the greatest disturbance.

**Average for 12 hours of American magnetic K-figure, determined by a number of observatories, on an arbitrary scale of 0 to 9, 9 representing the greatest disturbance.

/ Dashes indicate continuance of disturbance.

Table 64

Provisional Radio Propagation Quality Figures
North Pacific
Compared with IRPL Warnings and IRPL A-Zone Forecasts.

Day	January 1945				February 1945			
	Quality Figure	IRPL Warning	A-Zone Forecast	Geo- magnetic K _A	Quality Figure	IRPL Warning	A-Zone Forecast	Geo- magnetic K _A
1	(4) 5	X	5	01-12 GCF	01-12 GCF		6	1
2	(4) 5		6	13-24 GCF	13-24 GCF		6	1
3	(4) 5		6	01-12 GCF	01-12 GCF	X	6	2
4	(4) 5		5	13-24 GCF	13-24 GCF	X	6	1
5	(4) 5	X	(4)	01-12 GCF	01-12 GCF	X	5	3
6	(4) 6		(4)	13-24 GCF	13-24 GCF	X	5	3
7	(4) 5		5	01-12 GCF	01-12 GCF		5	1
8	(4) 7		5	13-24 GCF	13-24 GCF		5	3
9	(4) 6		5	01-12 GCF	01-12 GCF		5	2
10	(4) 6		5	13-24 GCF	13-24 GCF		5	2
11	(4) 6	X	(4)	01-12 GCF	01-12 GCF	X	(4)	2
12	(4) 5	X	(4)	13-24 GCF	13-24 GCF	X	(4)	1
13	(4) 5		(4)	01-12 GCF	01-12 GCF		5	0
14	(4) 5		5	13-24 GCF	13-24 GCF		5	2
15	(4) 6	X	5	01-12 GCF	01-12 GCF	X	(4)	4
16	(4) 5	X	5	13-24 GCF	13-24 GCF	X	(4)	3
17	(4) 5	X	5	01-12 GCF	01-12 GCF	X	5	3
18	(4) 6	X	5	13-24 GCF	13-24 GCF	X	6	2
19	(4) 6		5	01-12 GCF	01-12 GCF		(4)	1
20	(4) 6		5	13-24 GCF	13-24 GCF		(4)	1
21	(4) 6		6	01-12 GCF	01-12 GCF		6	1
22	(4) 7	X	6	13-24 GCF	13-24 GCF	X	6	1
23	(4) 6		5	01-12 GCF	01-12 GCF		6	2
24	(4) 6	X	(4)	13-24 GCF	13-24 GCF	X	5	2
25	(4) 7		(4)	01-12 GCF	01-12 GCF		(4)	3
26	(4) 7		(4)	13-24 GCF	13-24 GCF		(4)	2
27	(4) 6		5	01-12 GCF	01-12 GCF	X	5	3
28	(4) 6		6	13-24 GCF	13-24 GCF	X	6	2
29	(4) 6	X	6	01-12 GCF	01-12 GCF	X	6	1
30	(4) 5	X	5	13-24 GCF	13-24 GCF	X	6	1
31	(4) 5	X	5	01-12 GCF	01-12 GCF	X	6	1

Secre:

H 2
M 7
C 16
(S) 8
S 1

Quality Figure and
Forecast Scale:

- 1 = Useless
2 = Very poor
3 = Poor
4 = Poor to fair
5 = Fair
6 = Fair to good
7 = Good
8 = Very good
9 = Excellent

Symbols:

- X = Warning given.
H = Quality 4 or worse
on day or half-day
following warning.
M = Quality 4 or worse
on day or half-day
following no
warning.
G = Quality 5 or better
on day following
no warning.
(S) = Quality 5 on day
following warning.
S = Quality 6 or
better on day
following warning.
() = Quality or forecast
4 or worse (dis-
turbed)

Geomagnetic K_A on the
standard scale of 0 to
9, 9 representing the
greatest disturbance.

Table 65

Provisional Radio Propagation Quality Figures

March 1946

Compared with I-PL and ISIP warnings and IRLP-A-Zone forecasts.

Day	North Atlantic				North Pacific			
	Quality Figure		ISIP Warning		Quality Figure		IRLP A-Zone Forecast	
	01-12 GCF	13-24 GCF	01-12 GCF	13-24 GCF	01-12 GCF	13-24 GCF	01-12 GCF	13-24 GCF
1	6	7			5	6	5	6
2	5	7			6	6	6	6
3	5	7			6	7	6	6
4	5	6			(4)	6	(4)	6
5	6	6			(4)	5	(4)	5
6	6	6	X	X	5	6	5	5
7	5	6	X	X	5	6	5	5
8	5	6	X	X	(3)	6	(3)	6
9	6	7	X	X	(4)	7	(4)	7
10	(4)	5	X	X	5	(4)	5	5
11	(3)	(4)	X	X	(4)	5	(4)	5
12	(3)	(3)	X	X	5	6	5	5
13	(4)	5	X	X	5	6	5	5
14	(3)	(4)	X	X	(4)	5	(4)	5
15	(3)	(4)	X	X	5	6	5	5
16	(4)	5	X	X	5	6	5	5
17	(4)	5	X	X	5	6	5	5
18	(4)	5	X	X	5	6	5	5
19	5	6	X	X	5	6	5	5
20	5	6			6	6	6	6
21	5	6			6	6	6	6
22	5	7	X	X	6	7	6	7
23	6	7			5	7	5	7
24	5	7			(4)	7	(4)	7
25	5	7			(4)	6	(4)	6
26	(4)	5			5	5	5	5
27	(4)	5	X	X	5	6	5	6
28	(3)	(4)	X	X	(4)	6	(4)	6
29	(4)	5	X	X	(4)	6	(4)	6
30	5	7	X	X	(4)	6	(4)	6
31	6	7	X	X	(4)	6	(4)	6
Score:								
F	11	6	6	3	6	6	2	2
M	1	6	6	0	0	0	4	4
G	11	19	19	11	12	8	16	16
(S)	4	0	0	4	5	5	5	5
S	4	0	0	4	5	5	4	4

Quality Figure and
Forecast Scale:

- 1 = Useless
2 = Very poor
3 = Poor
4 = Poor to fair
5 = Fair
6 = Fair to good
7 = Good
8 = Very good
9 = Excellent

Symbols:

- X = Warning given.
W = Quality 4 or worse on day or half-day following warning.
M = Quality 4 or worse on day or half-day following no warning.
G = Quality 5 or better on day following no warning.
(S) = Quality 5 on day following warning.
S = Quality 6 or better on day following warning.
() = Quality or forecast 4 or worse (disturbed)

Geomagnetic K_p on the standard scale of 0 to 9, 9 representing the greatest disturbance.

Table 66

Provisional Radio Propagation Quality Figures

April 1945

Compared with IRPL and ISIB Warnings and IRPL-A-Zone Forecasts.

Day	North Atlantic			North Pacific			Quality Figure and Forecast Scale:		
	Quality Figure	IRPL Warning	ISIB Warning	A-Zone Forecasts	Geo-magnetic KA	Geo-magnetic KA	1 = Useless	2 = Very poor	3 = Poor
1	0-12 5	0-12 5	0-12 5	0-12 5	0-12 5	0-12 5	4 = Fair to good	5 = Fair	6 = Fair to good
2	(4) 5	X	X	(4) 5	(4) 5	(4) 5	7 = Good	8 = Very good	9 = Excellent
3	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
4	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
5	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
6	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
7	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
8	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
9	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
10	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
11	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
12	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
13	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
14	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
15	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
16	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
17	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
18	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
19	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
20	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
21	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
22	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
23	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
24	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
25	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
26	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
27	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
28	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
29	(4) 5	X	X	(4) 5	(4) 5	(4) 5			
30	(4) 5	X	X	(4) 5	(4) 5	(4) 5			

Score:

H	5	1	3	2	0
M	1	5	3	0	2
G	14	23	15	14	18
(S)	5	1	3	5	5
S	5	0	6	9	7

Symbols:

X = Warning given.

H = Quality 4 or worse on day or half-day following warning.

M = Quality 4 or worse on day or half-day following no warning.

G = Quality 5 or better on day following no warning.

(S) = Quality 5 on day following warning.

S = Quality 6 or better on day following warning.

() = Quality or forecast 4 or worse (disturbed).

Geomagnetic KA on the standard scale of 0 to 9, 9 representing the greatest disturbance.

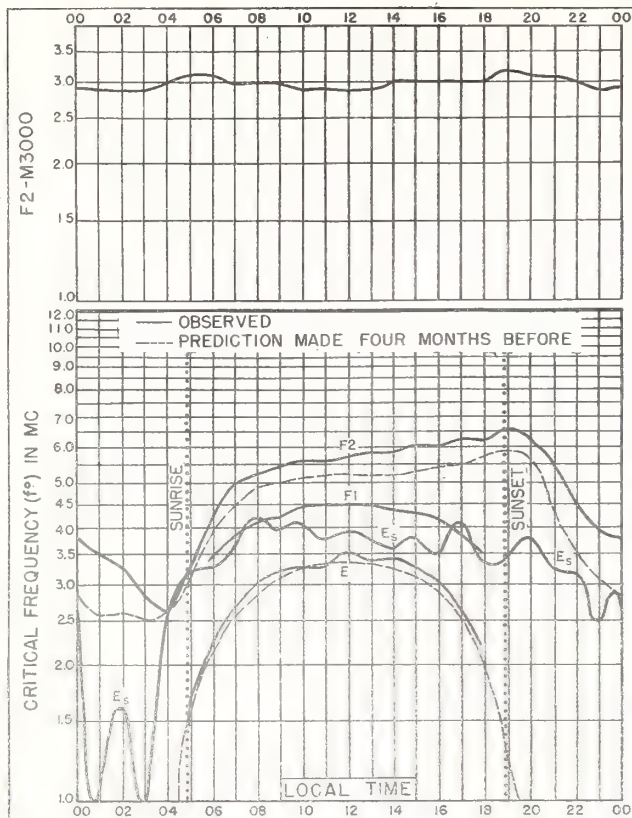


Fig. 1. WASHINGTON, D.C.
39°N, 77.5°W
MAY, 1945

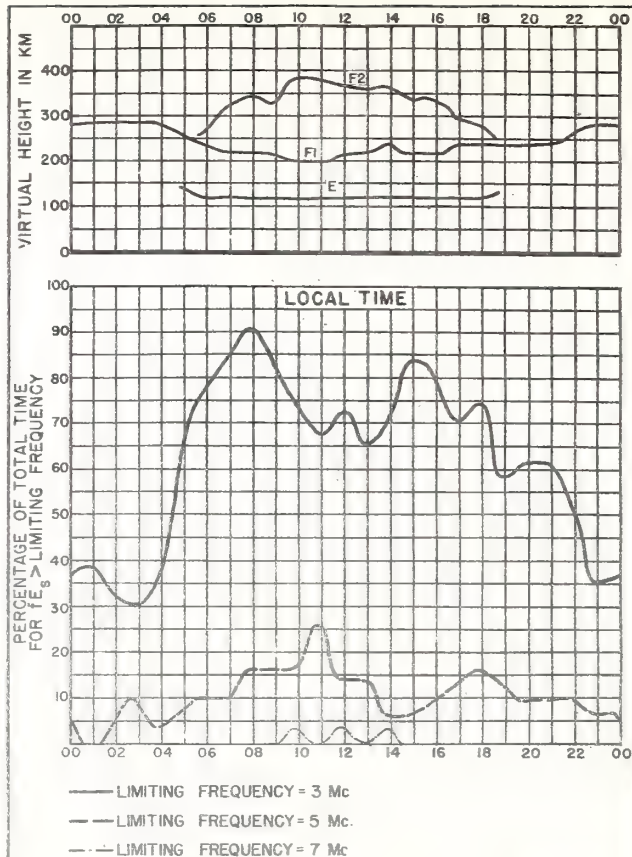


Fig. 2. WASHINGTON, D.C.
MAY, 1945

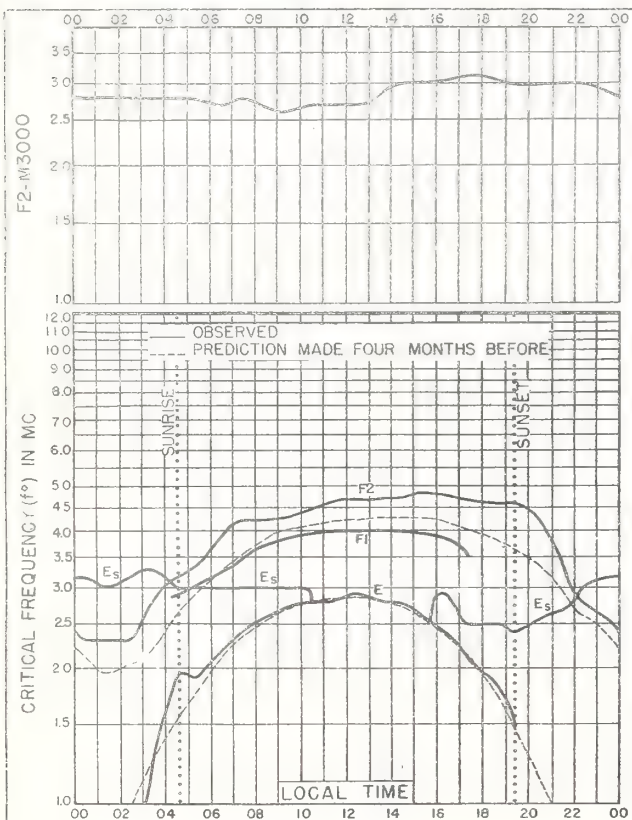


Fig. 3. FAIRBANKS, ALASKA
64.9°N, 147.8°W
APRIL, 1945

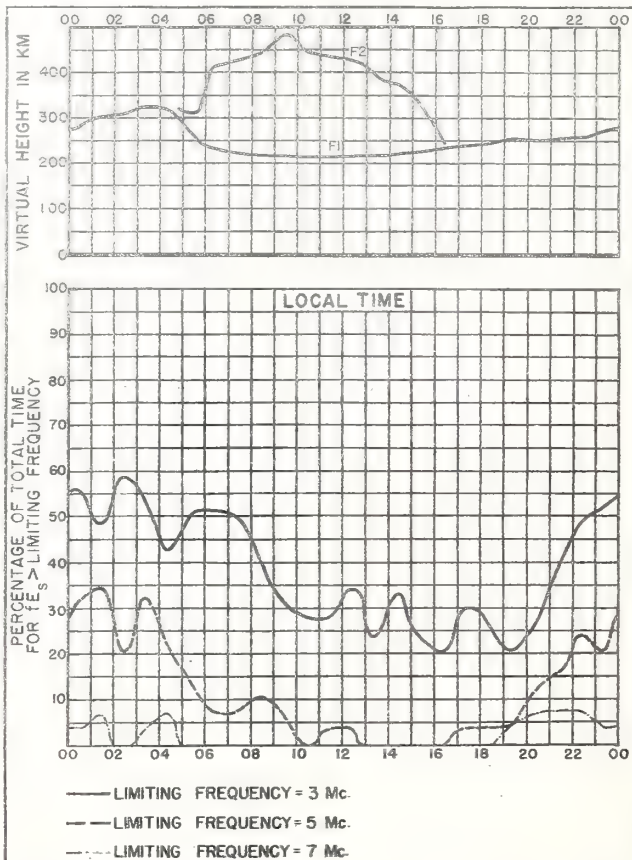


Fig. 4. FAIRBANKS, ALASKA
APRIL, 1945

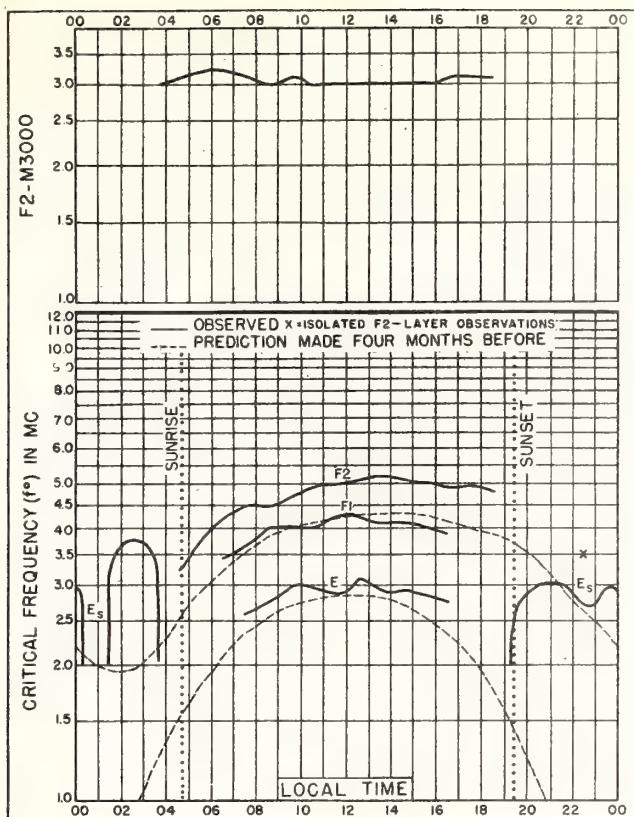


Fig. 5. REYKJAVIK, ICELAND
64.1°N, 21.7°W

APRIL, 1945

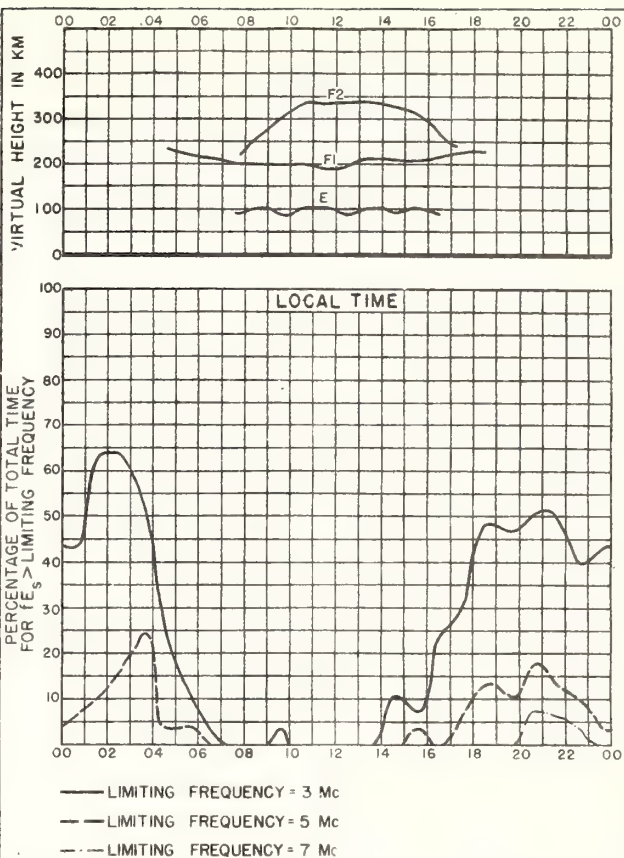


Fig. 6. REYKJAVIK, ICELAND

APRIL, 1945

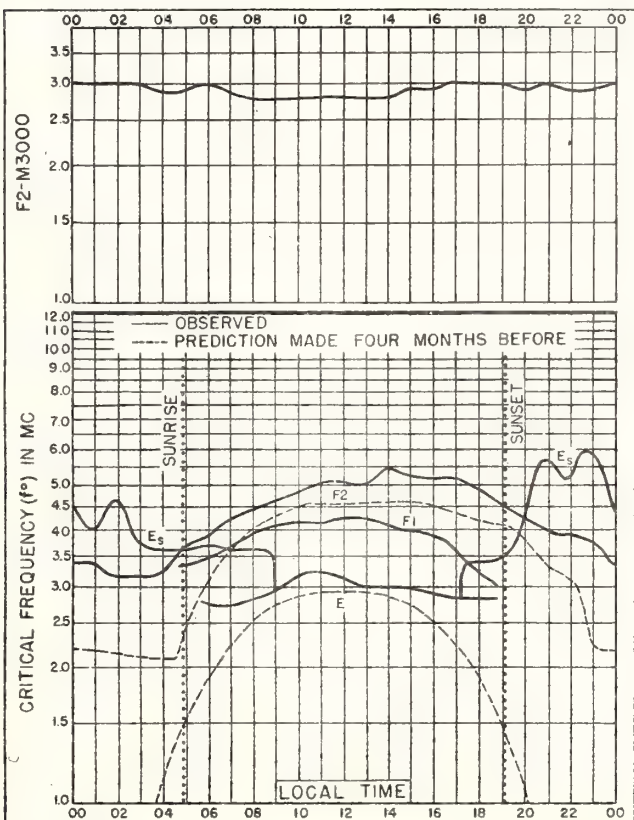


Fig. 7. CHURCHILL, CANADA
58.8°N, 94.2°W

APRIL, 1945

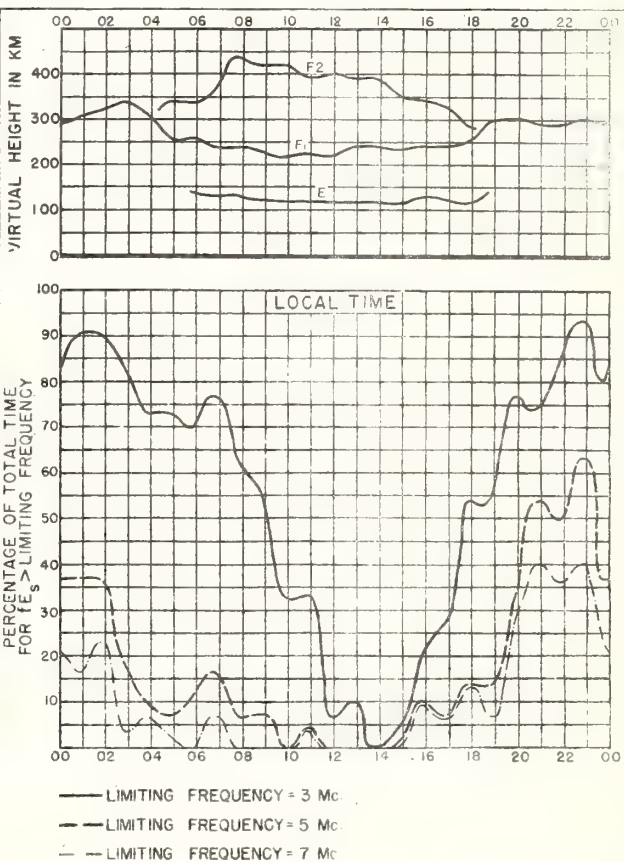
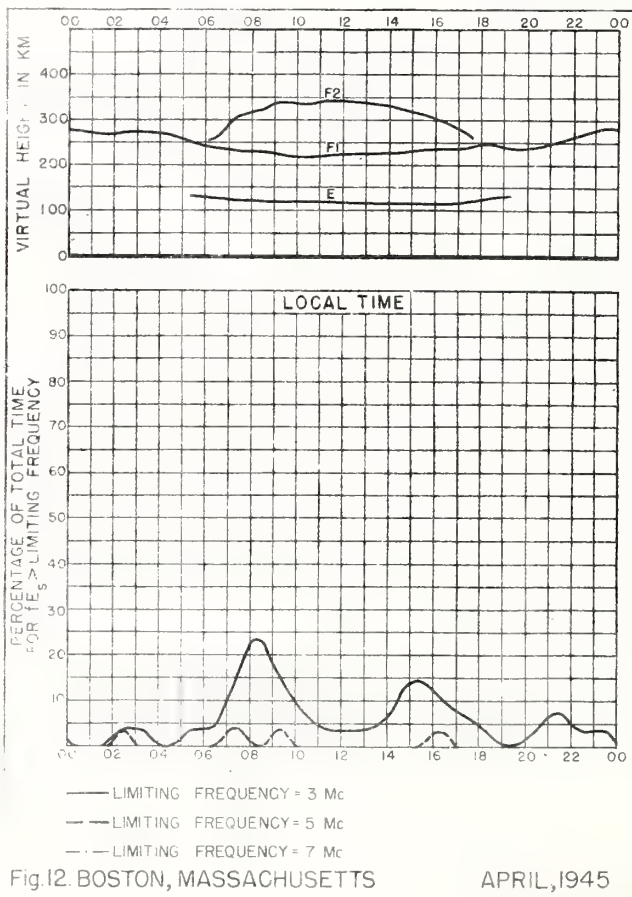
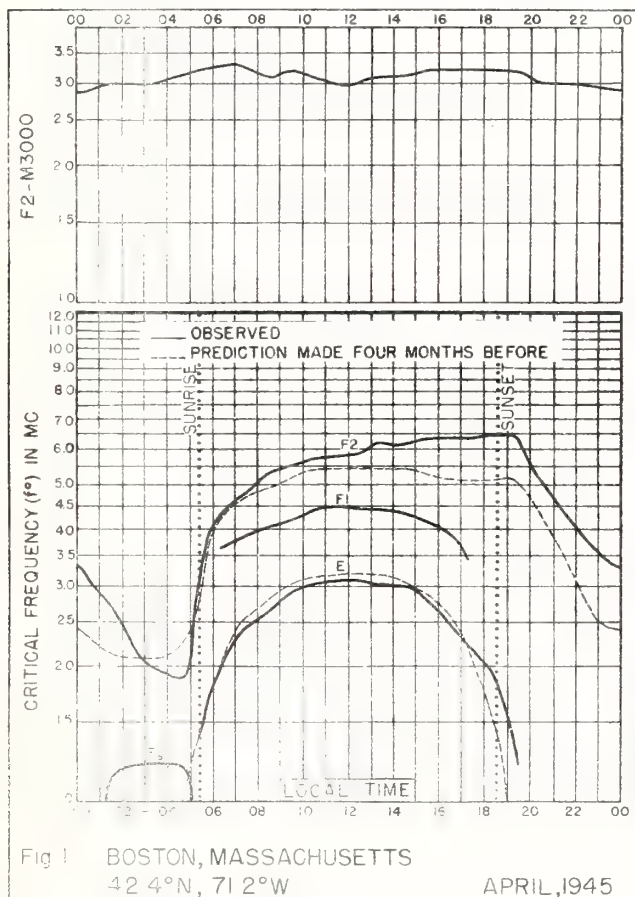
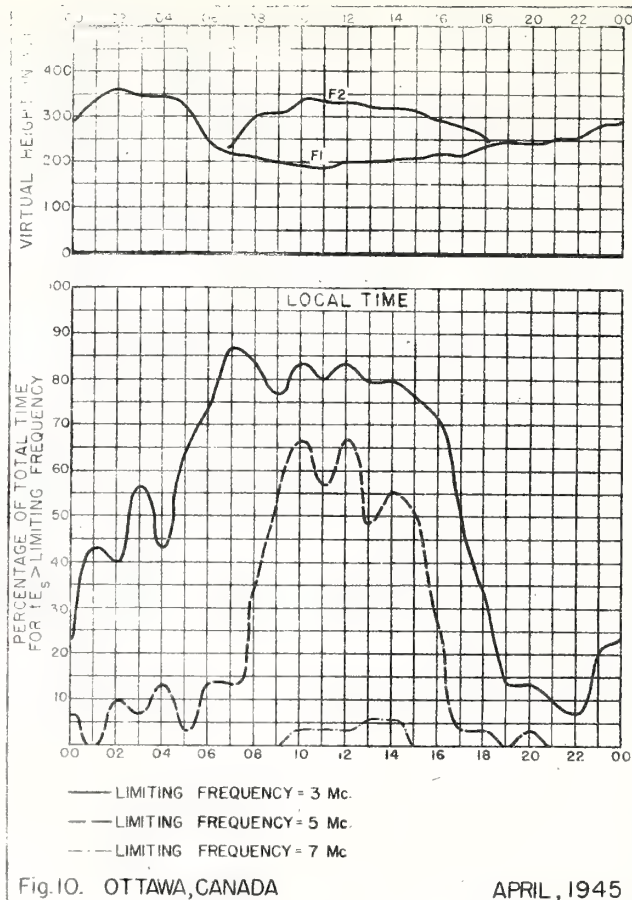
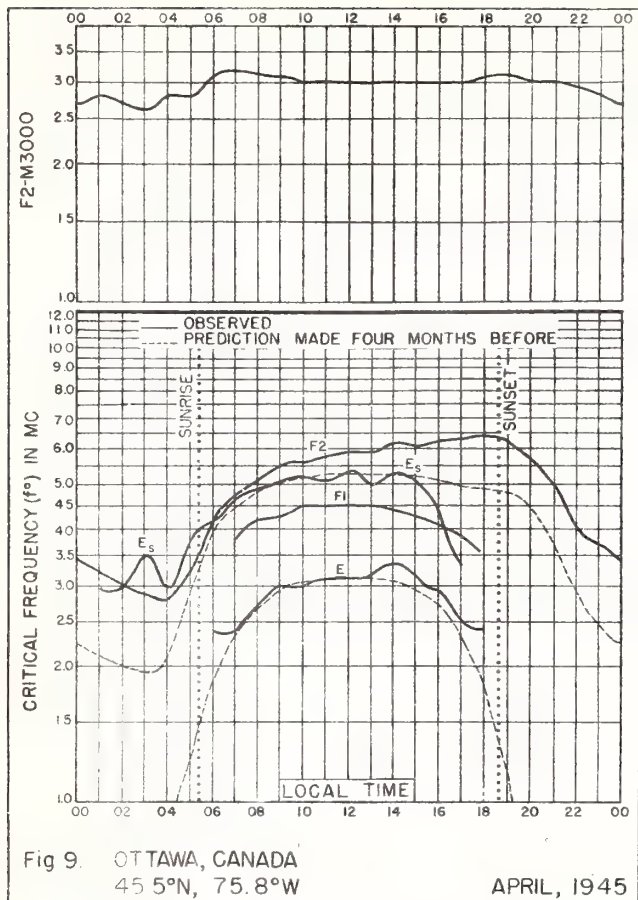


Fig. 8. CHURCHILL, CANADA

APRIL, 1945



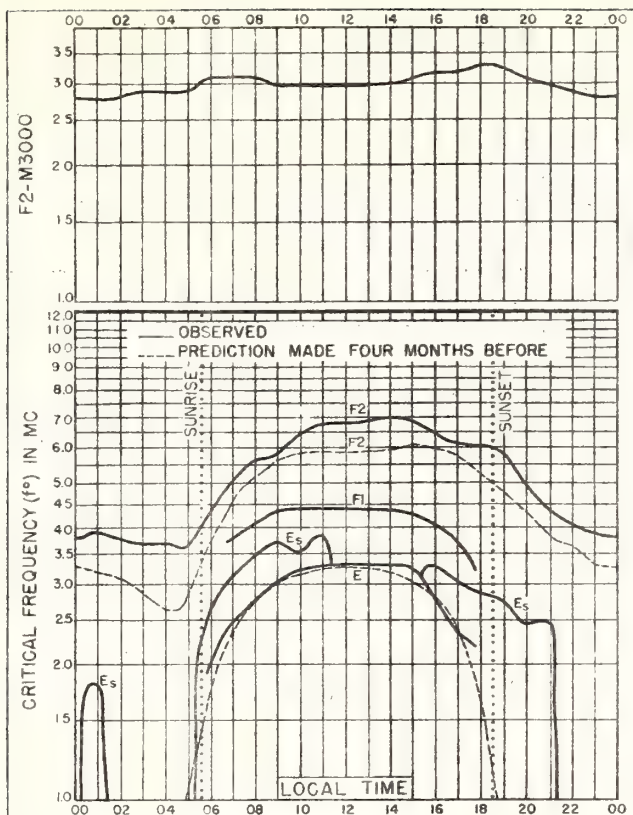


Fig 13. SAN FRANCISCO, CALIFORNIA
37.4°N, 122.2°W

APRIL, 1945

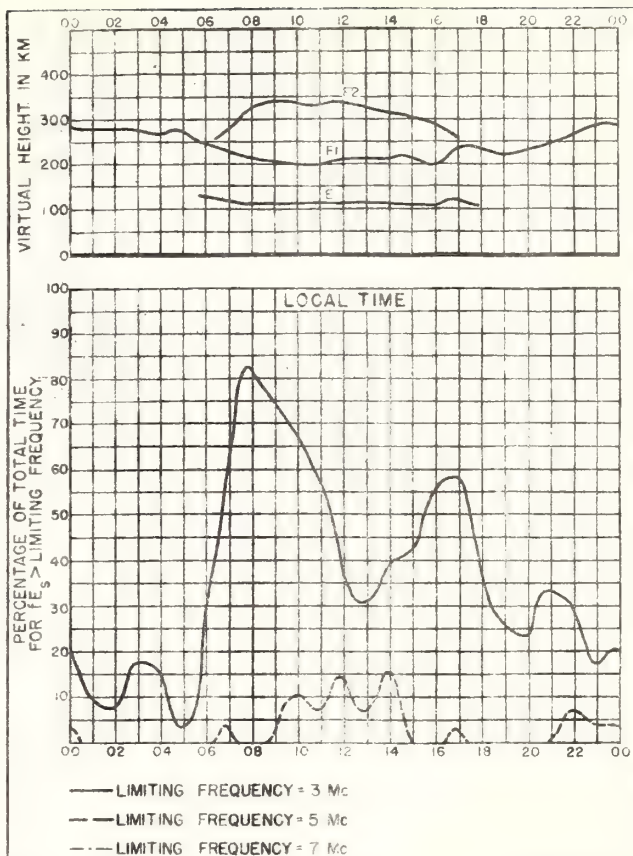


Fig 14. SAN FRANCISCO, CALIFORNIA

APRIL, 1945

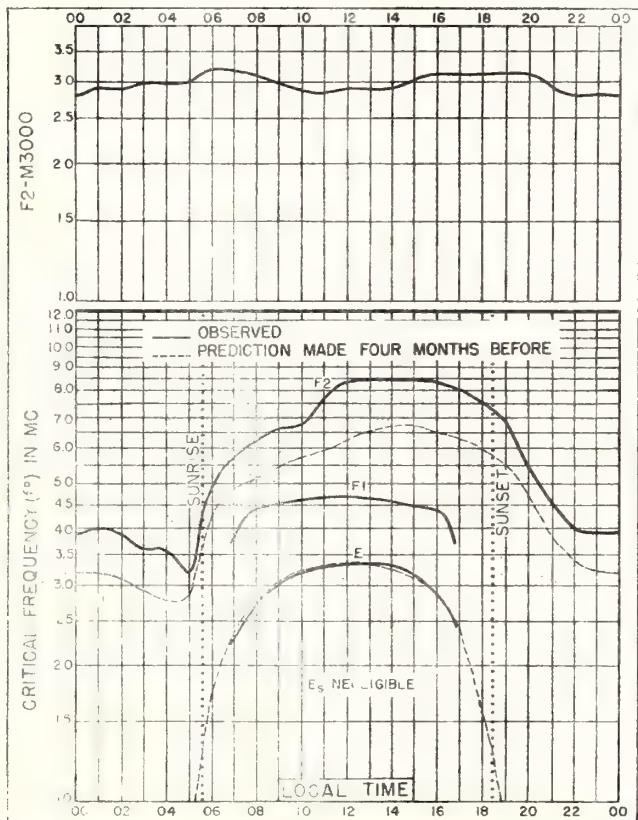


Fig 15. BATON ROUGE, LOUISIANA
30.5°N, 91.2°W

APRIL, 1945

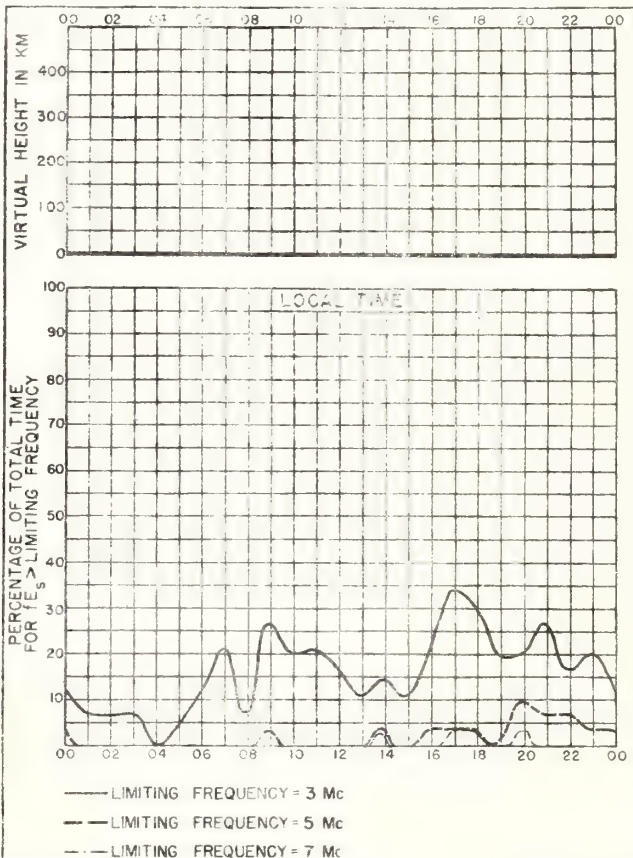


Fig 16. BATON ROUGE, LOUISIANA

APRIL, 1945

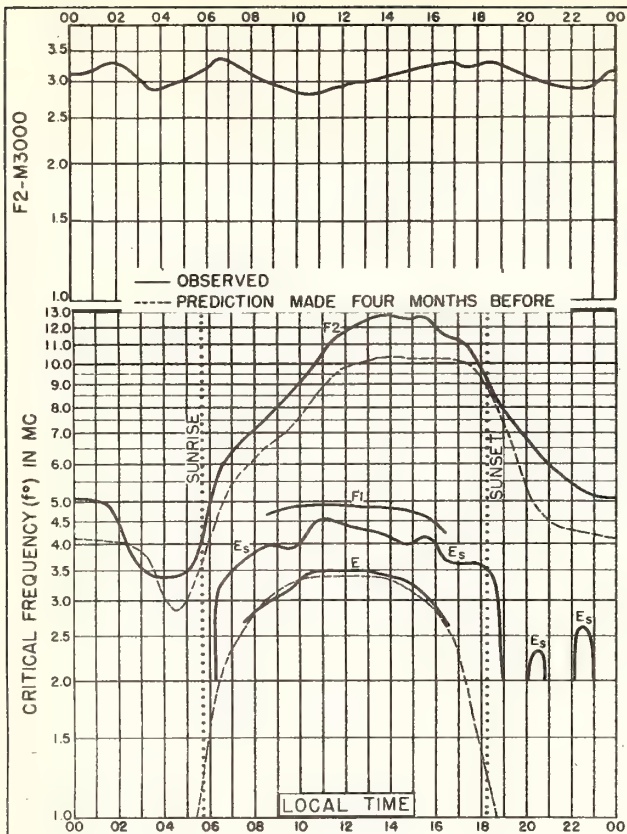


Fig. 17. MAUI, HAWAII
20.8°N, 156.5°W

APRIL, 1945

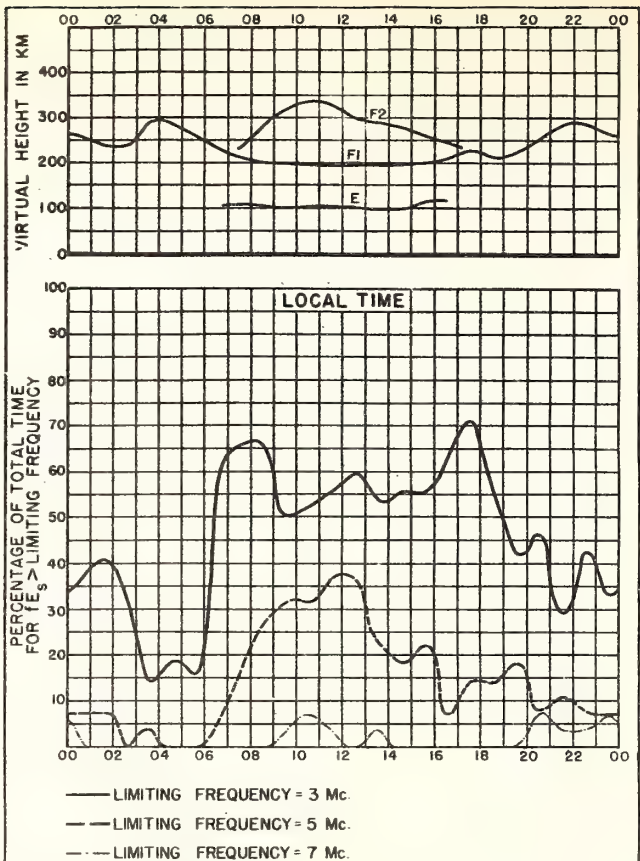


Fig. 18. MAUI, HAWAII

APRIL, 1945

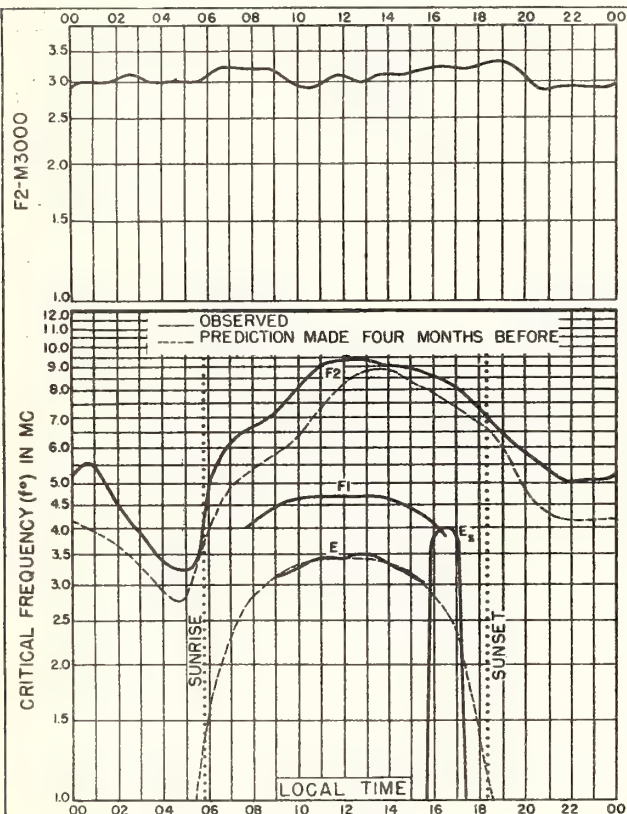


Fig. 19. SAN JUAN, PUERTO RICO
18.4°N, 66.1°W

APRIL, 1945

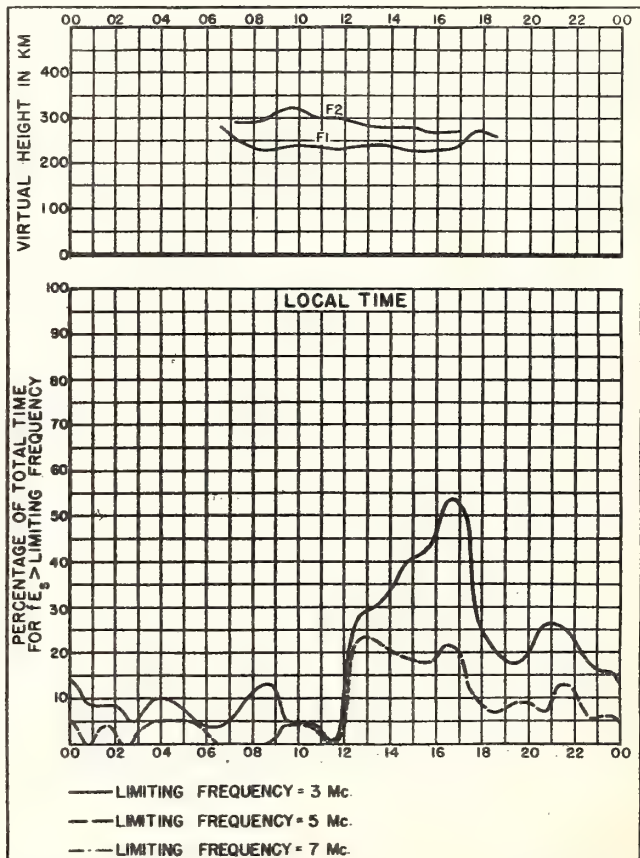
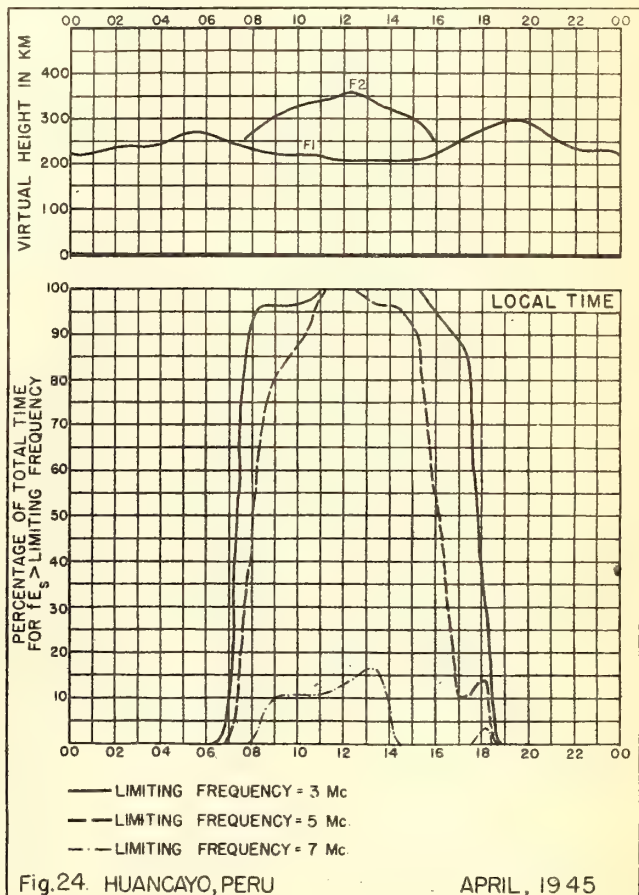
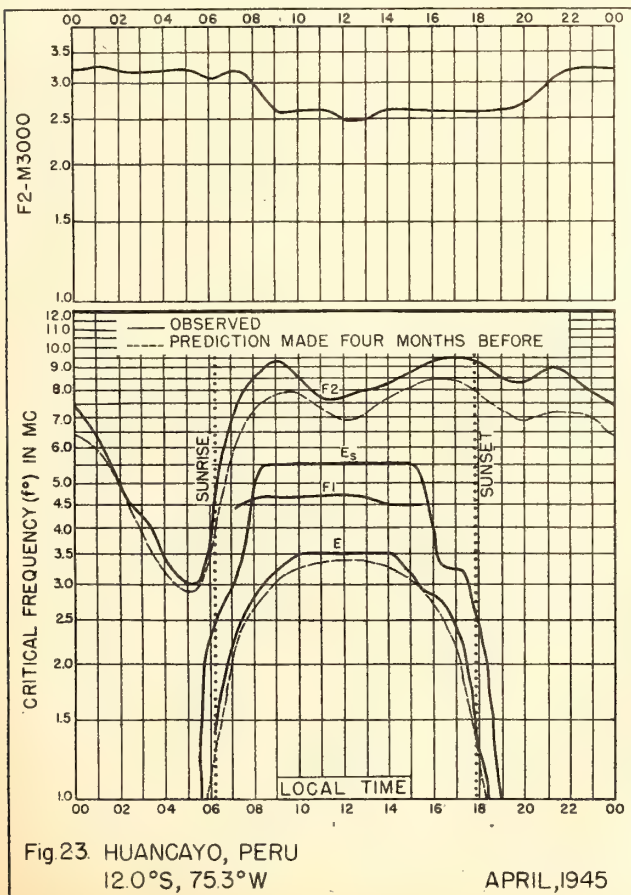
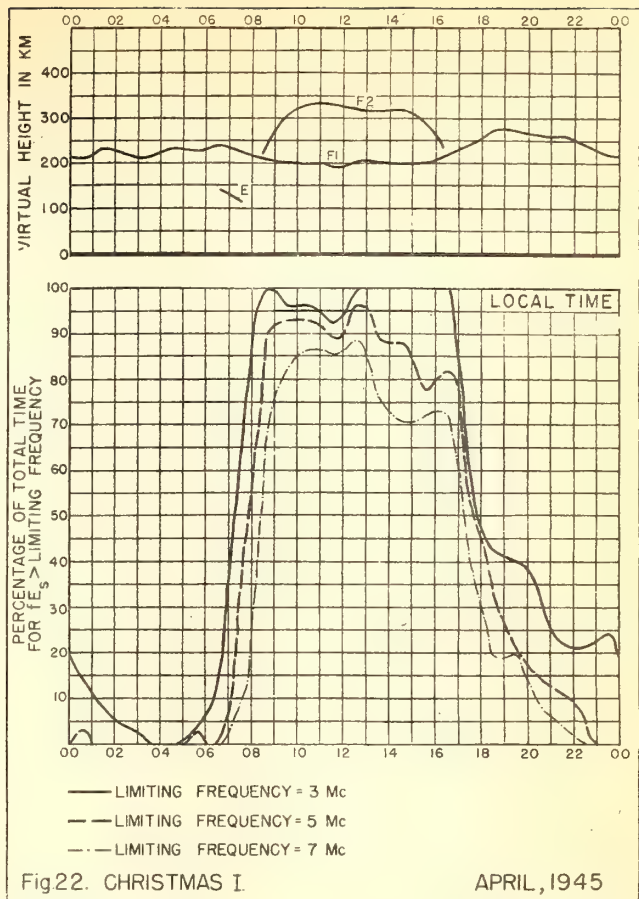
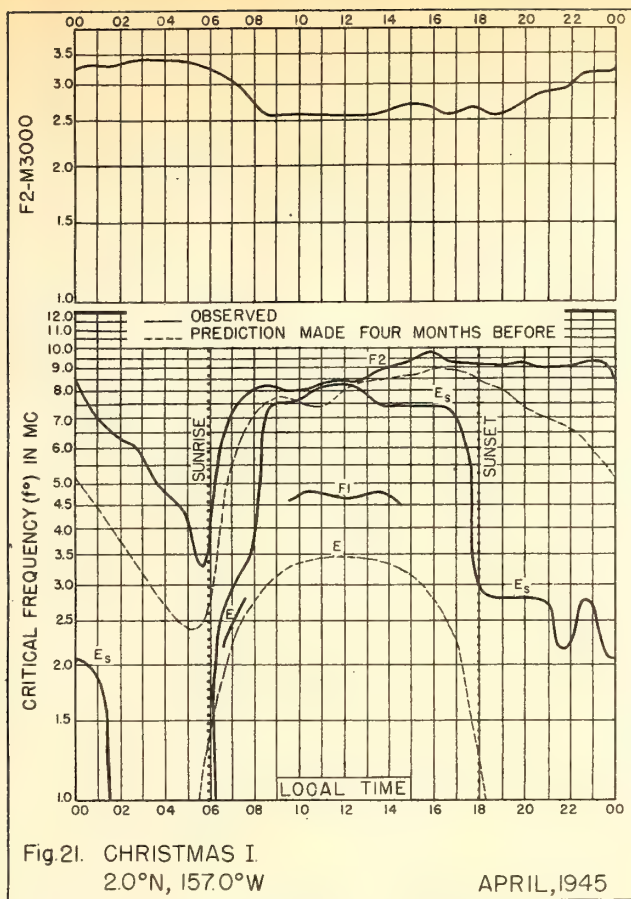
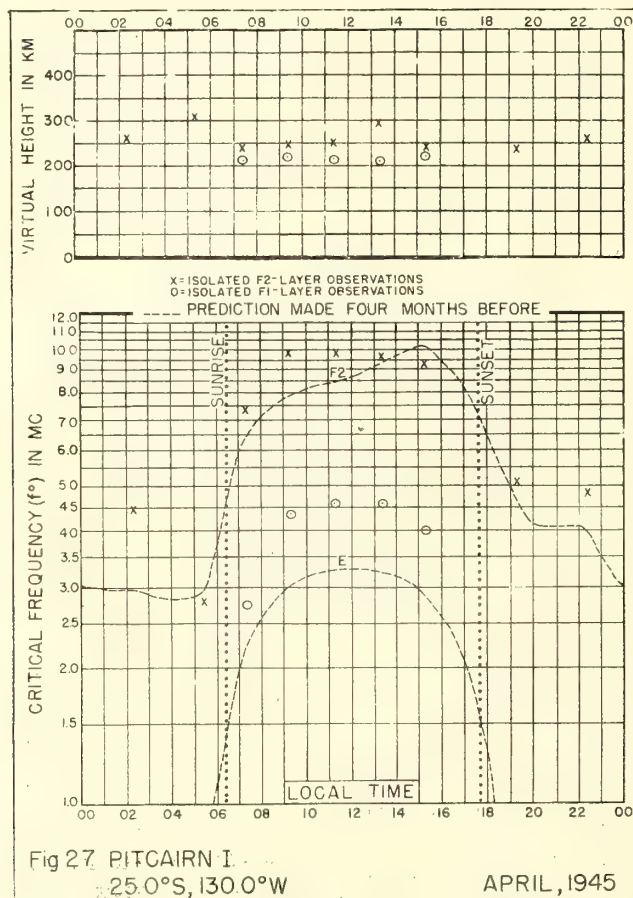
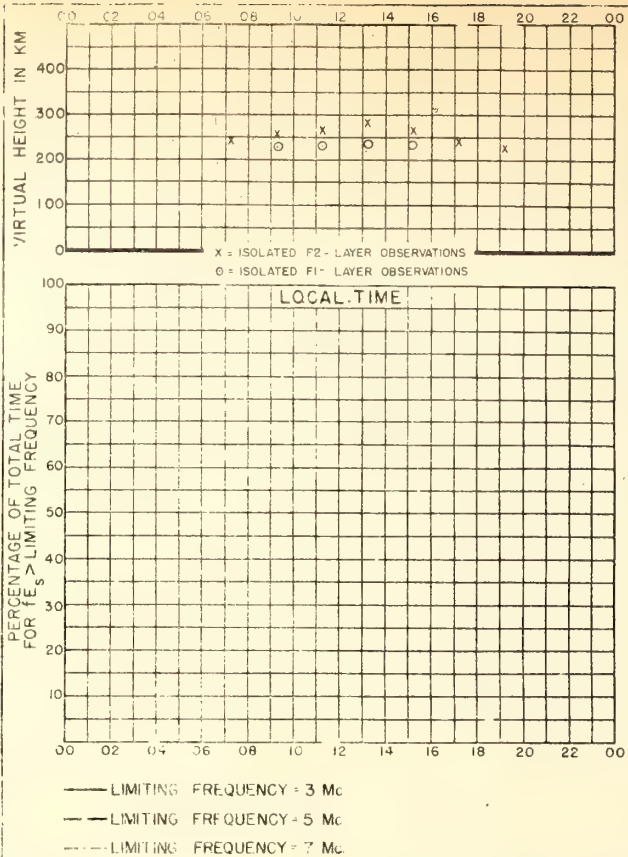
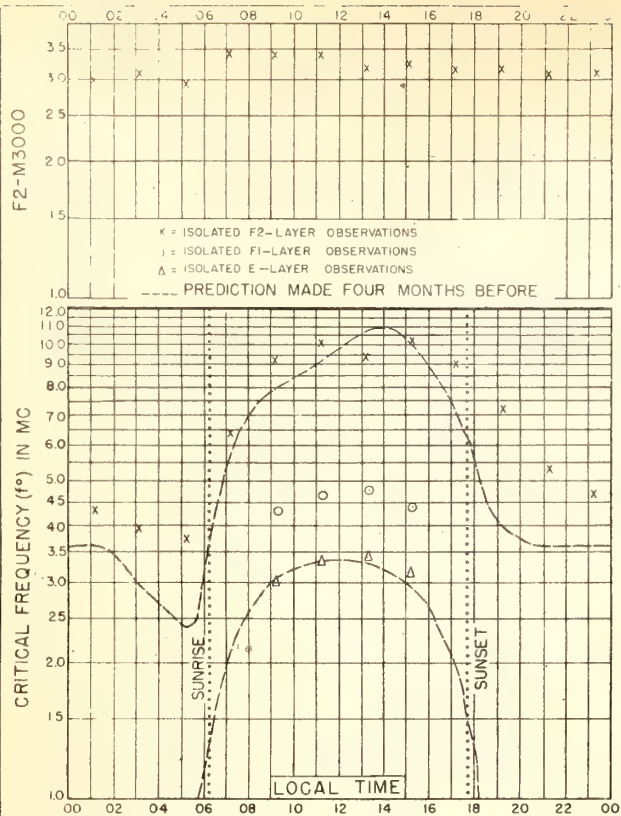
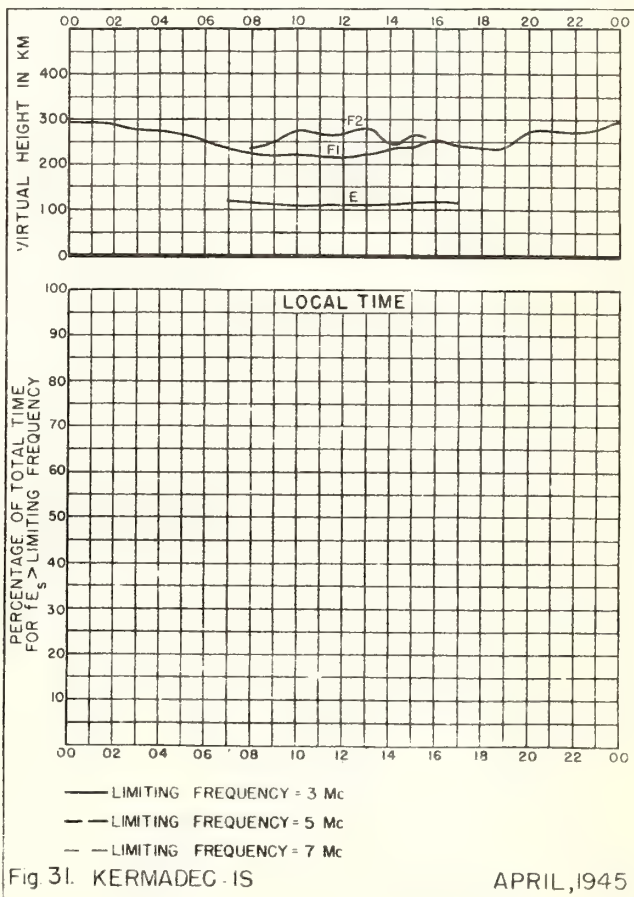
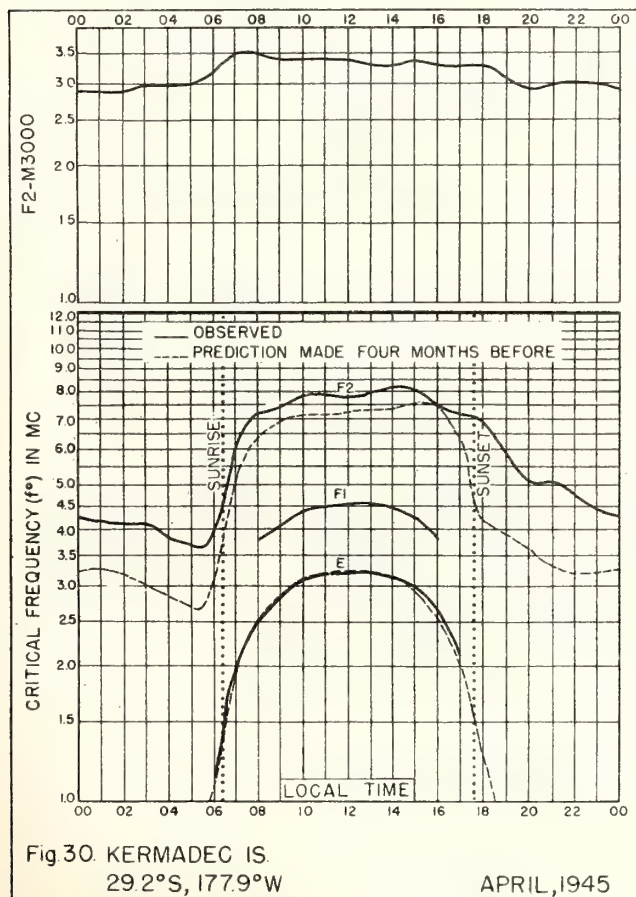
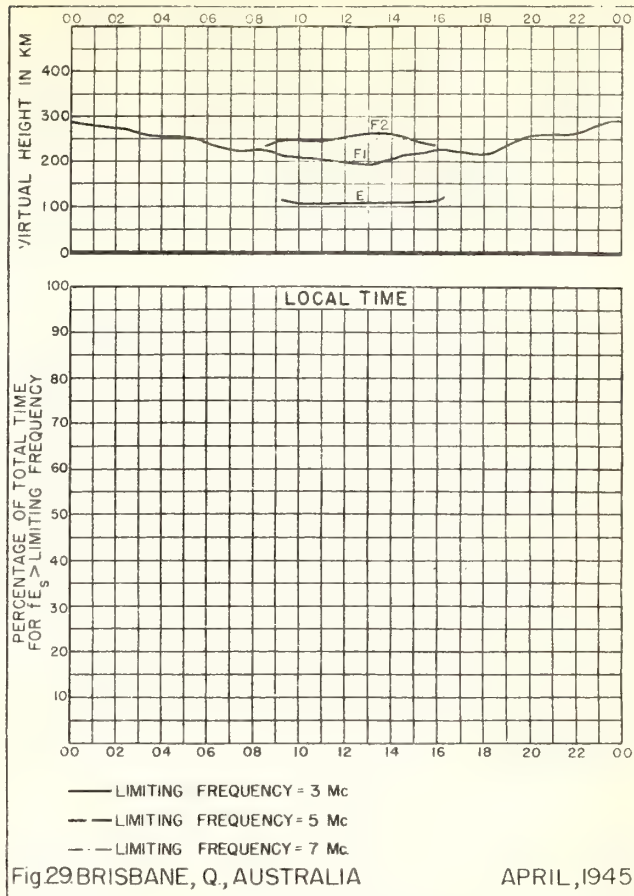
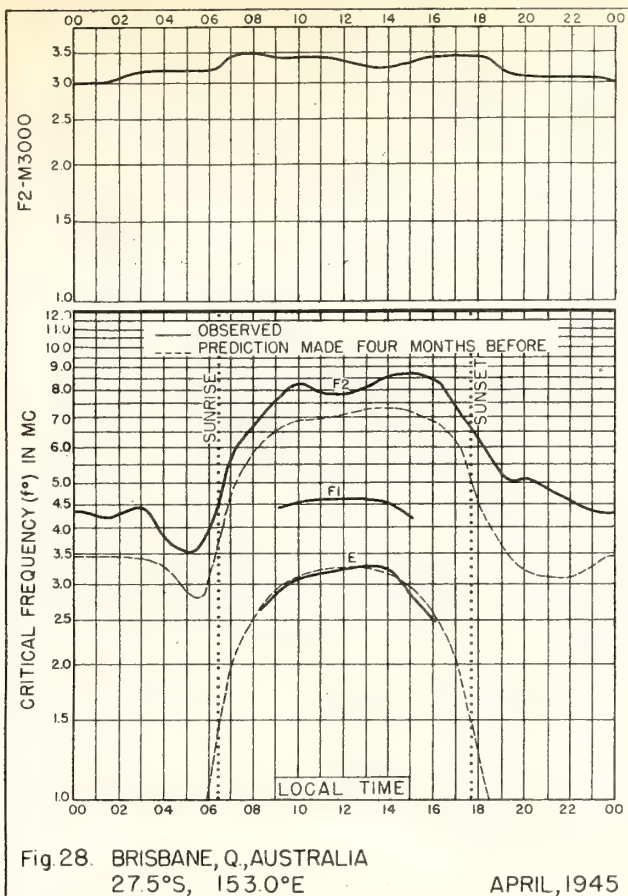


Fig. 20. SAN JUAN, PUERTO RICO

APRIL, 1945







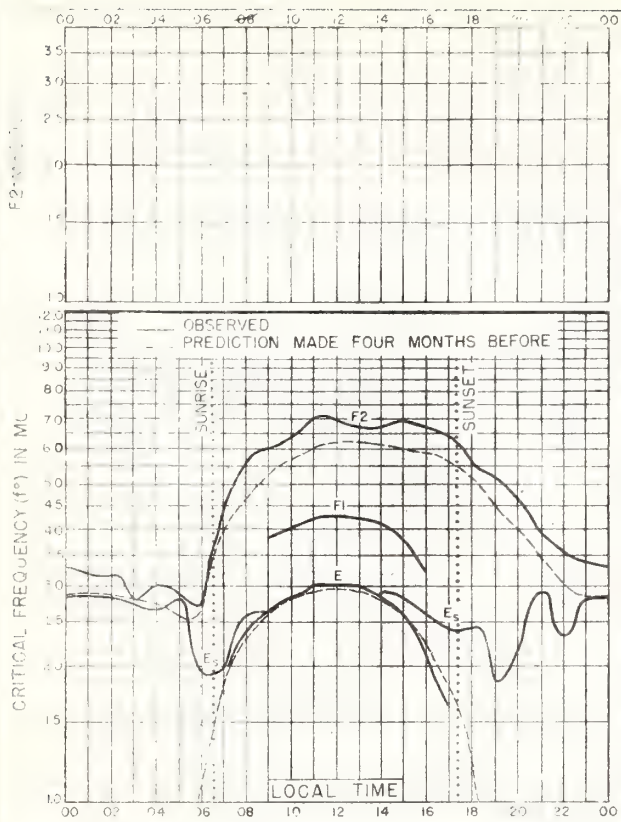


Fig.32. CHRISTCHURCH, NEW ZEALAND
43.5°S, 172.6°E

APRIL, 1945

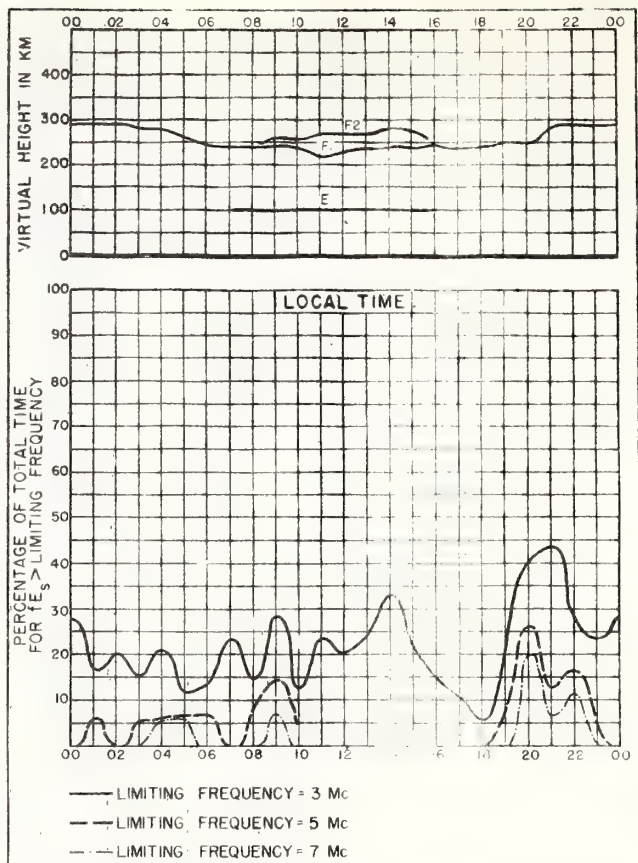


Fig.33. CHRISTCHURCH, NEW ZEALAND

APRIL, 1945

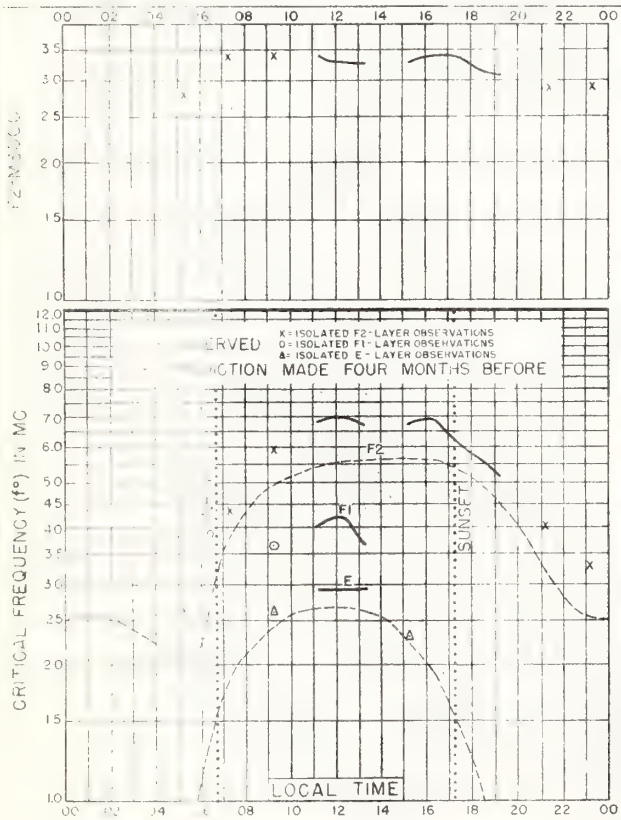


Fig.34. CAMPBELL I
52.5°S, 169.0°E

APRIL, 1945

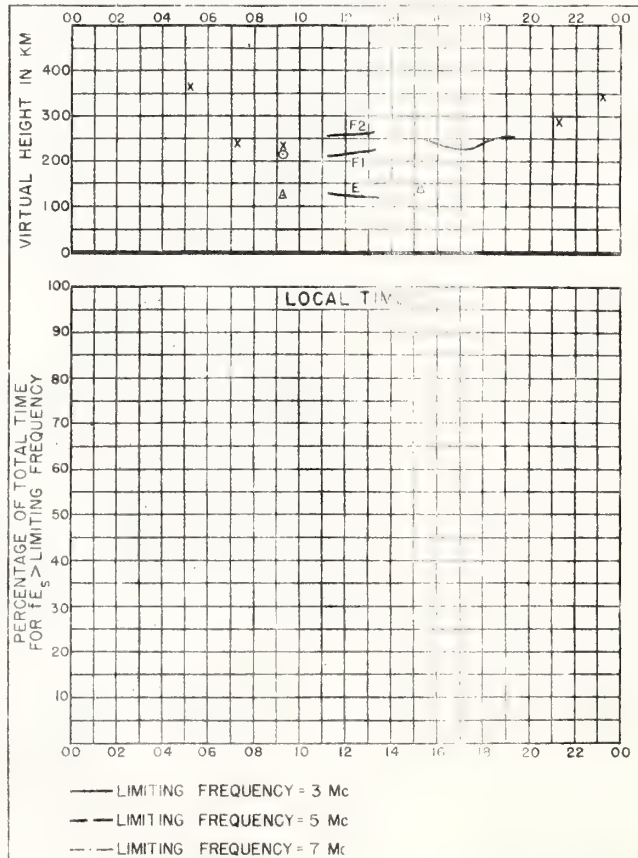


Fig.35 CAMPBELL I.

APRIL, 1945

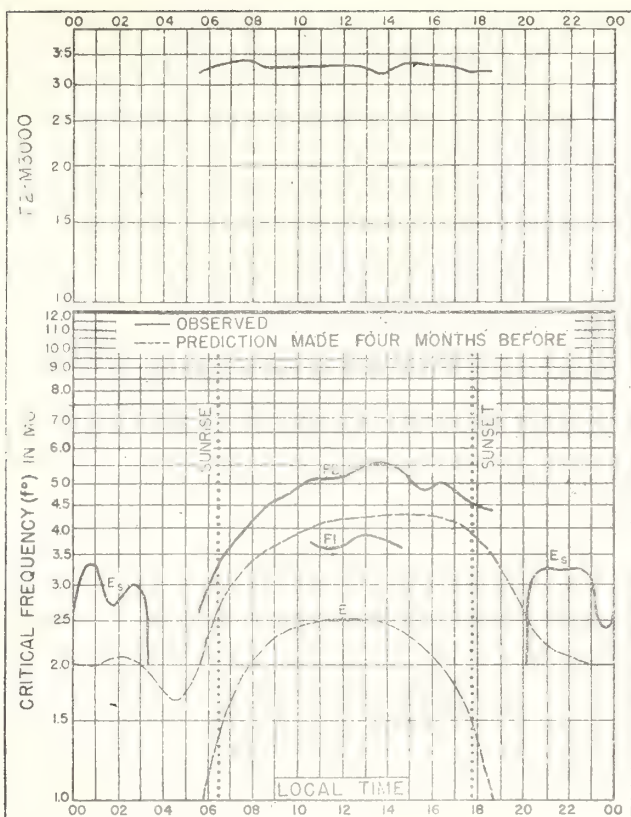


Fig. 36. REYKJAVIK, ICELAND
64.1°N, 21.7°W

MARCH, 1945

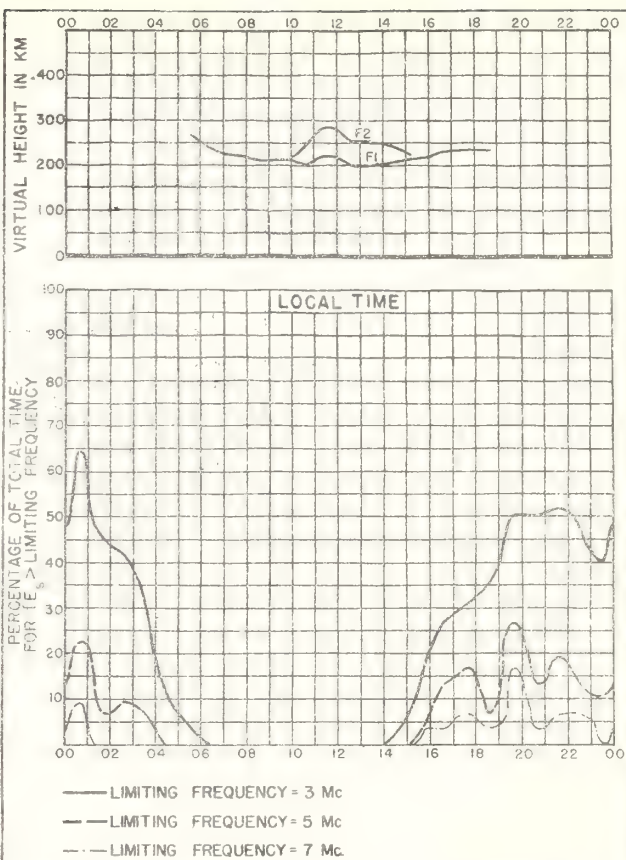


Fig. 37. REYKJAVIK, ICELAND

MARCH, 1945

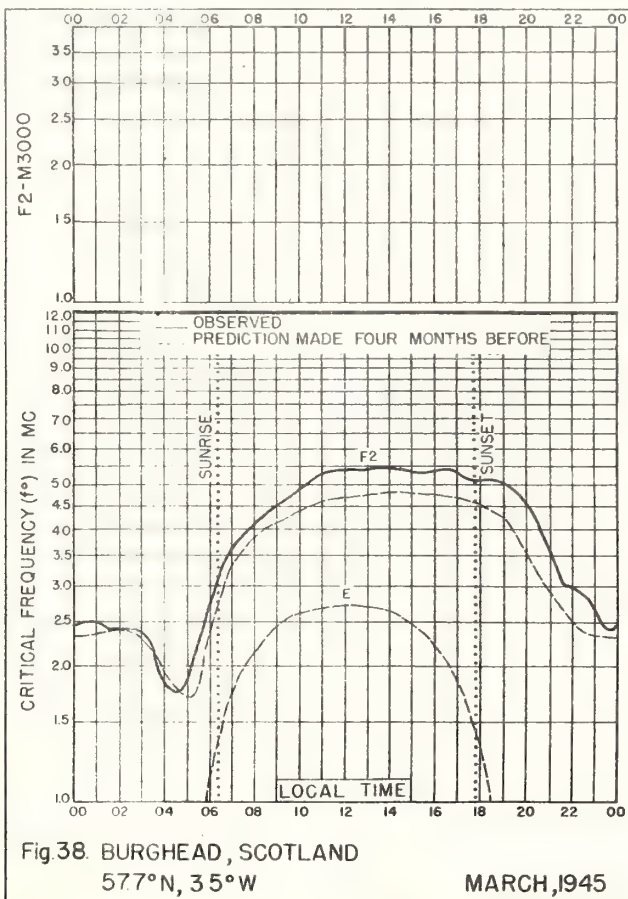
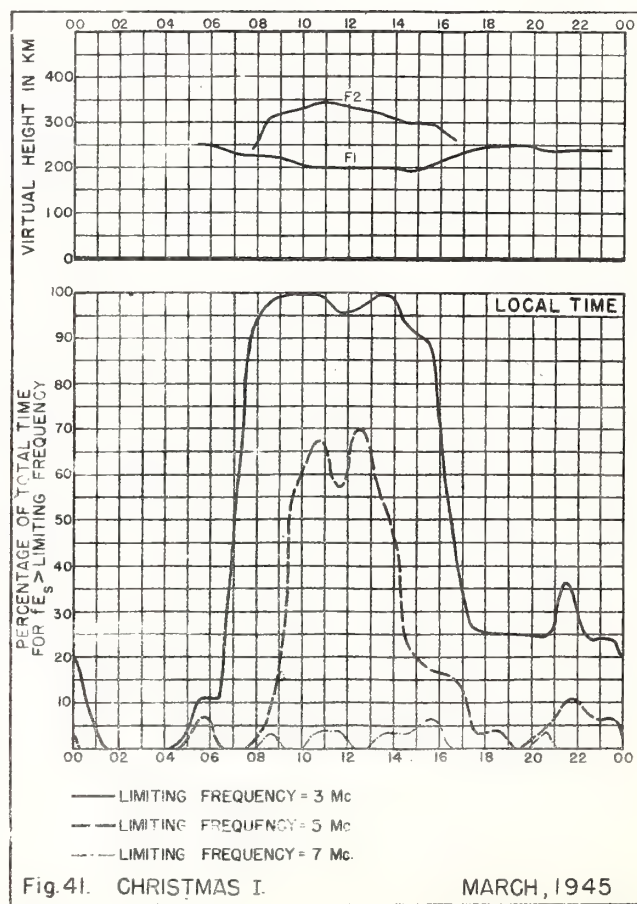
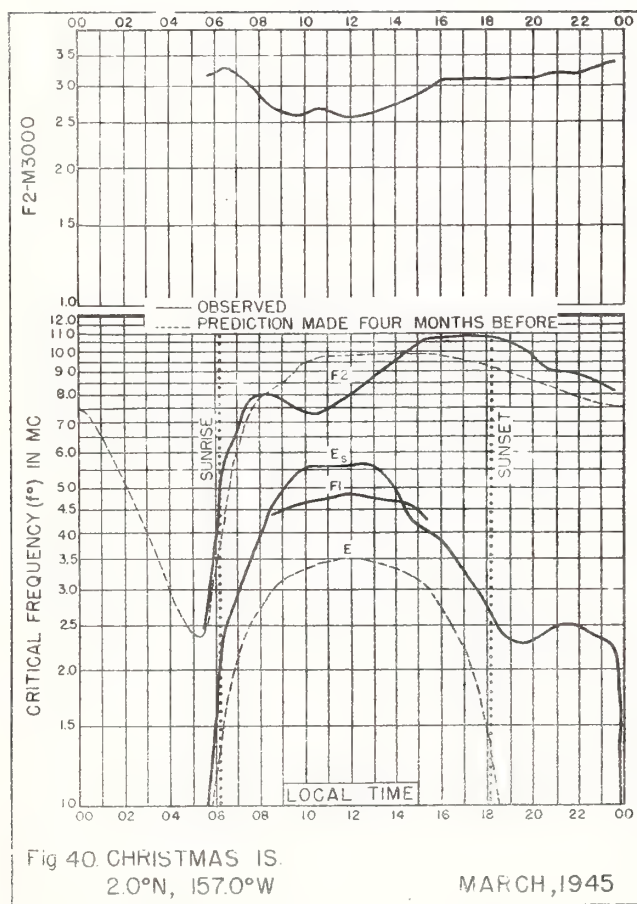
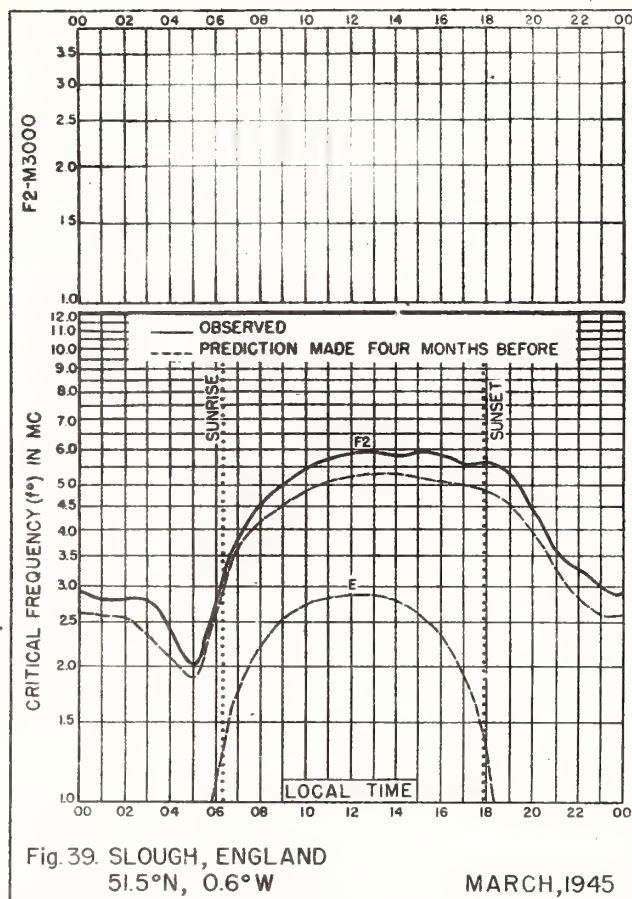
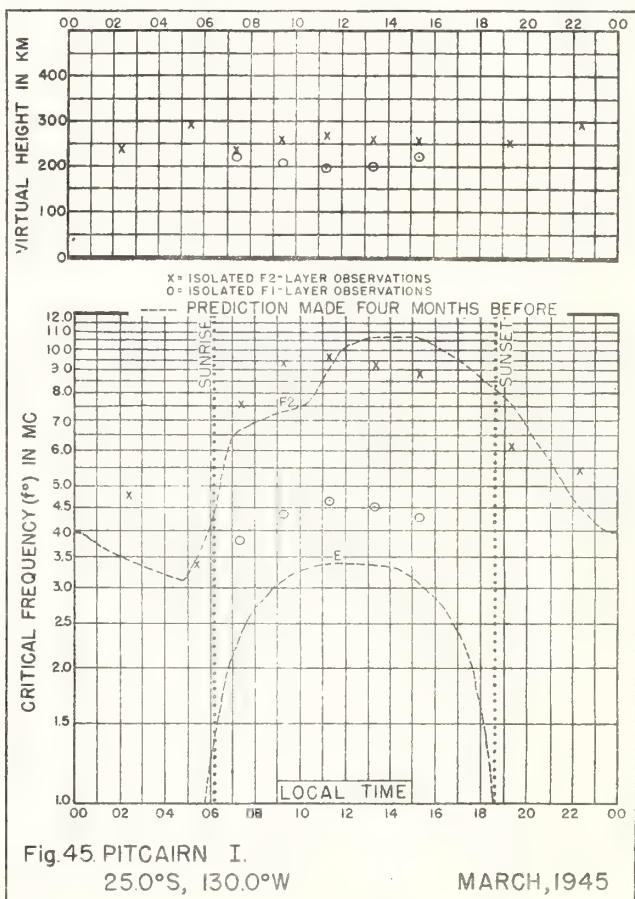
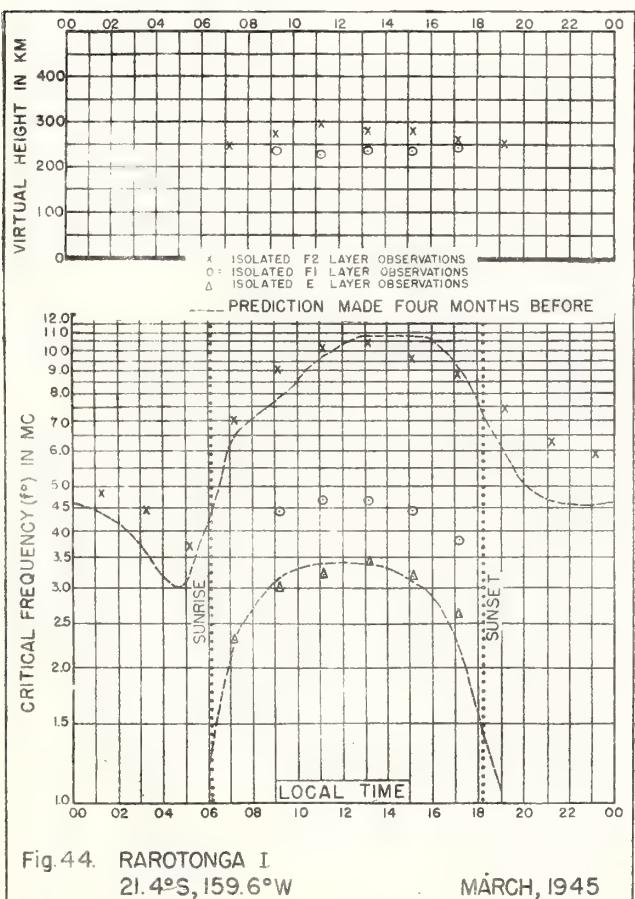
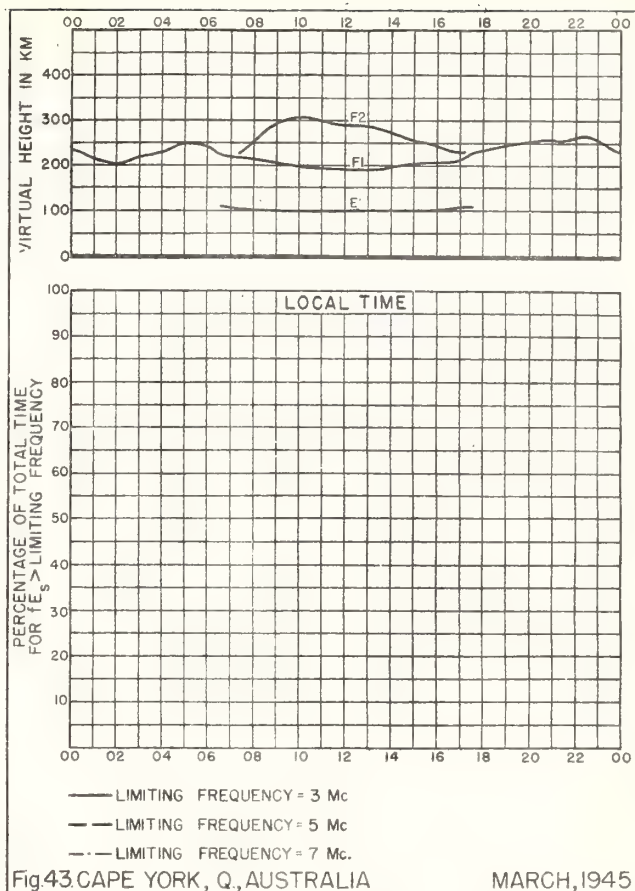
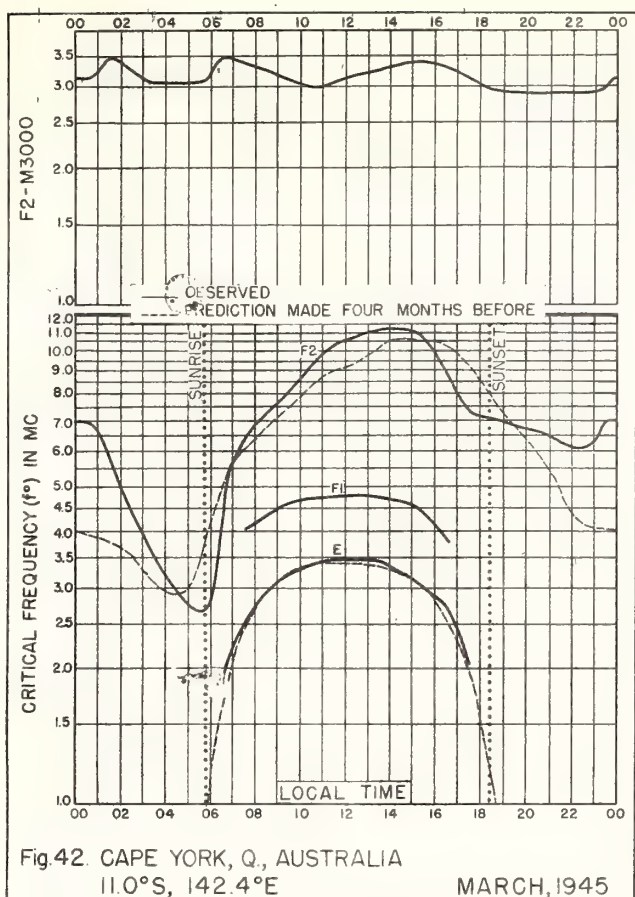
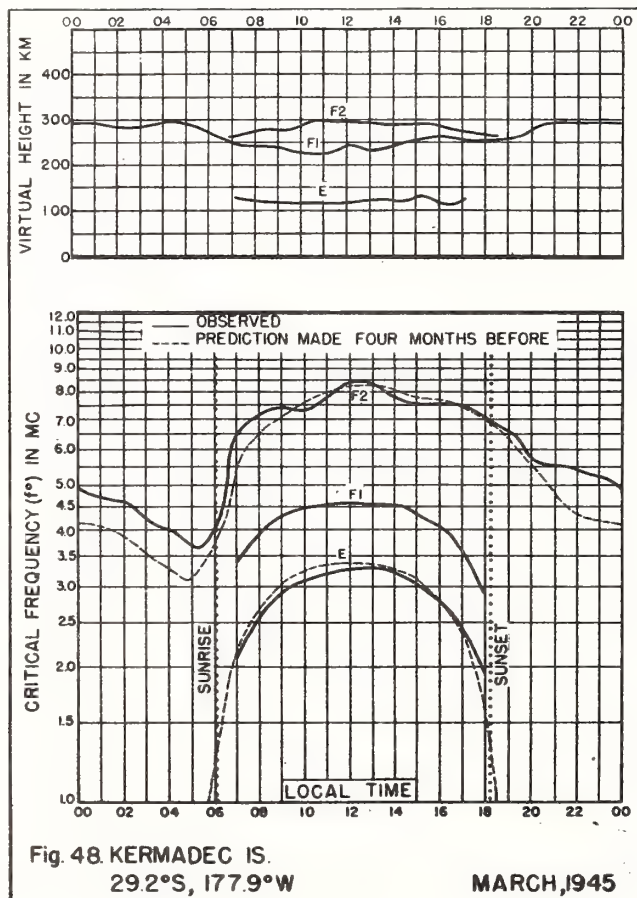
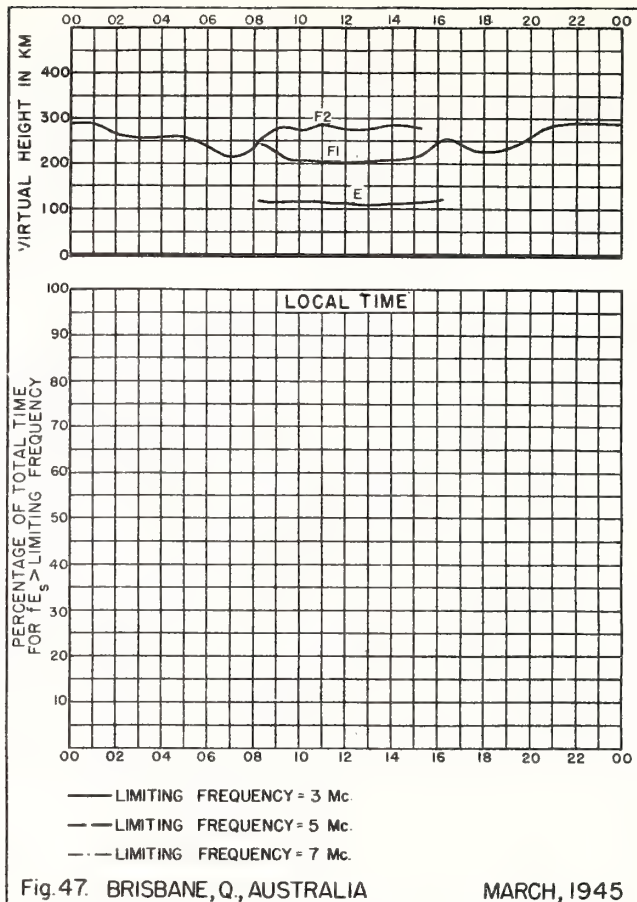
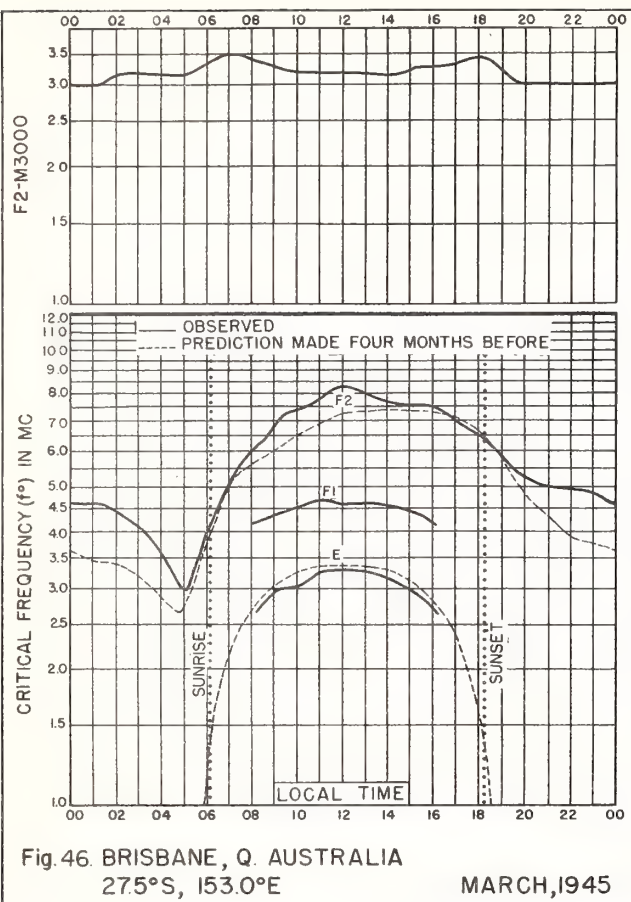


Fig. 38. BURGHEAD, SCOTLAND
57.7°N, 3.5°W

MARCH, 1945







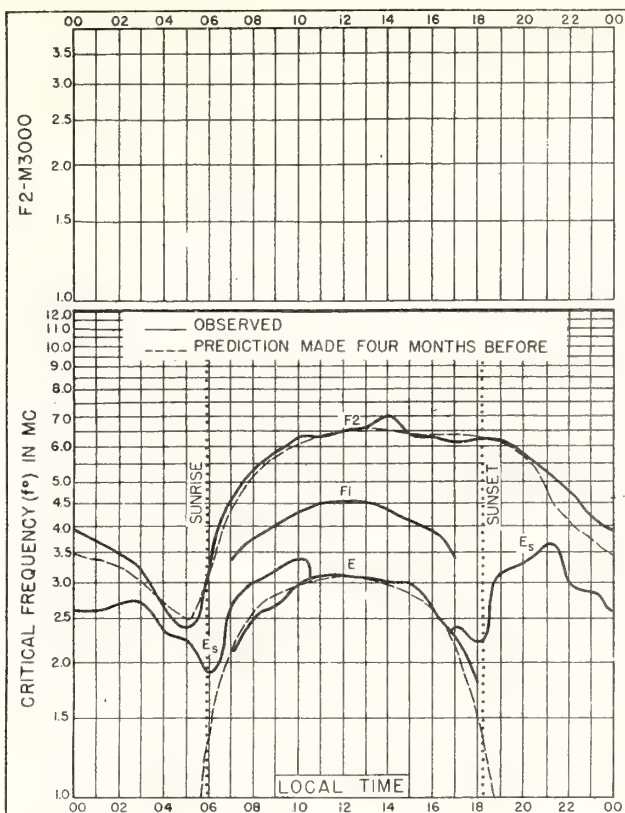


Fig.49. CHRISTCHURCH, NEW ZEALAND
43.5°S, 172.6°E

MARCH, 1945

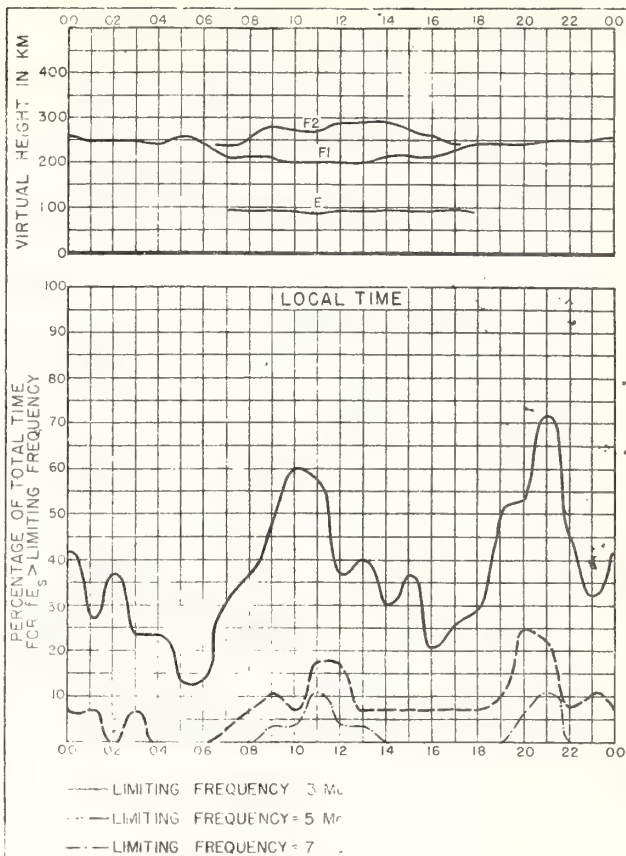


Fig.50. CHRISTCHURCH, NEW ZEALAND

MARCH, 1945

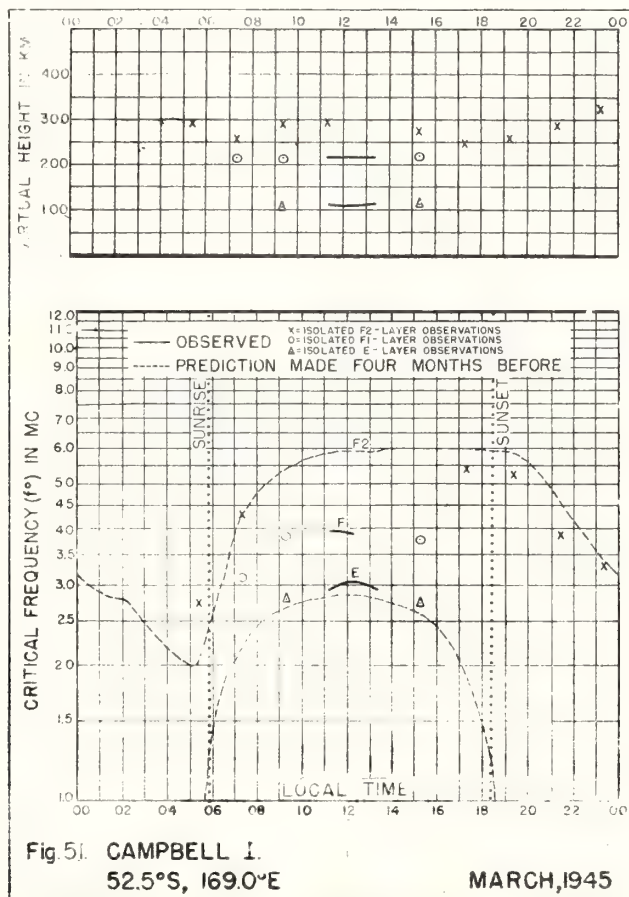


Fig 51. CAMPBELL I.
52.5°S, 169.0°E

MARCH, 1945

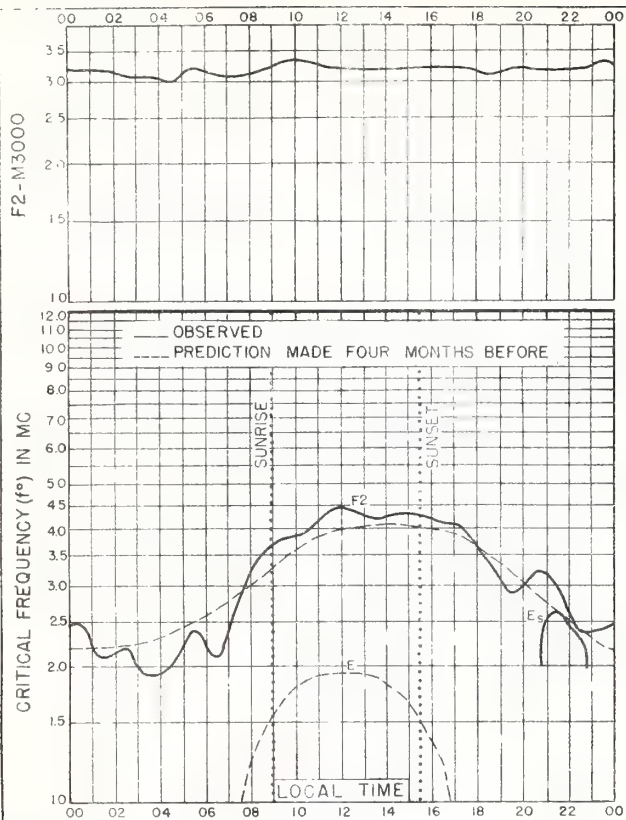


Fig 52. BAFFIN I, CANADA
70.5°N, 68.6°W

FEBRUARY, 1945

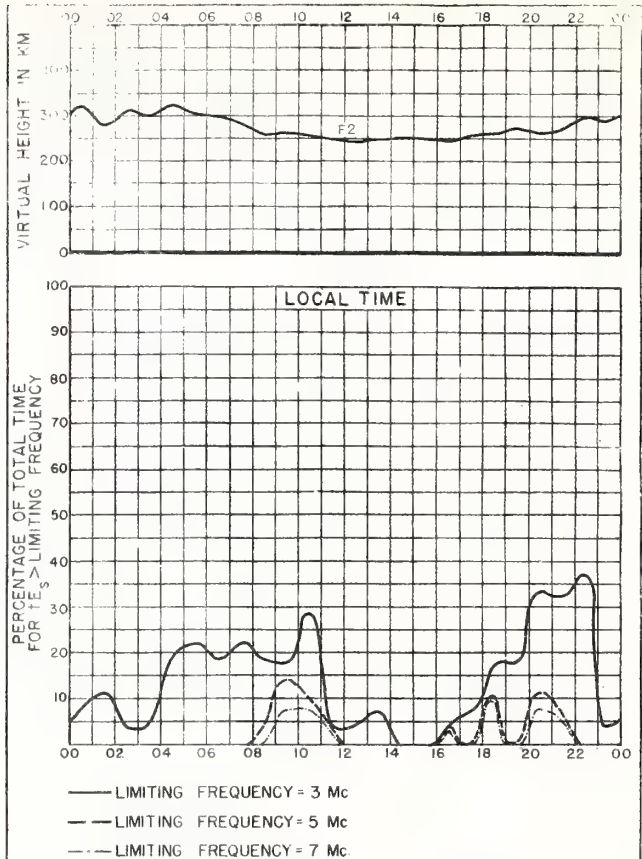


Fig 53. BAFFIN I, CANADA

FEBRUARY, 1945

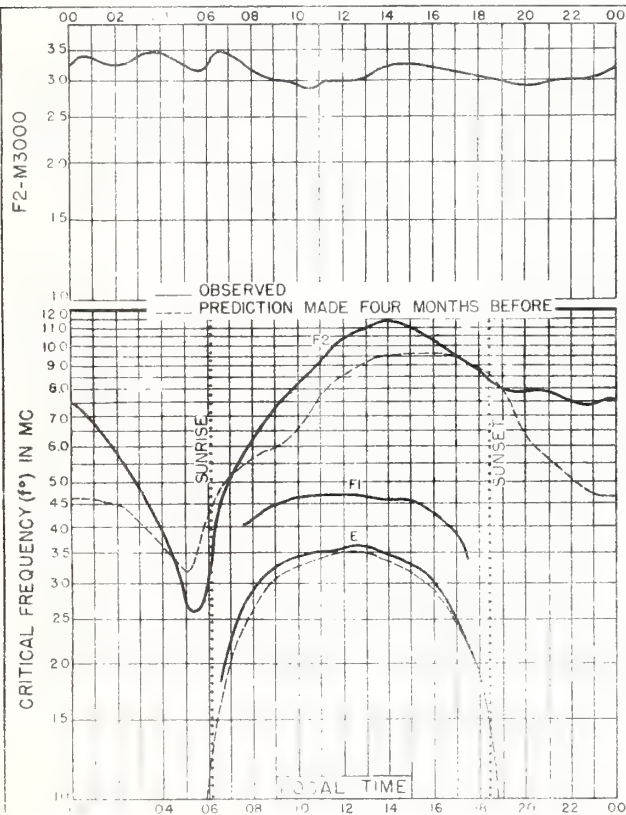


Fig 54. CAPE YORK, Q, AUSTRALIA
11.0°S, 142.4°E

FEBRUARY, 1945

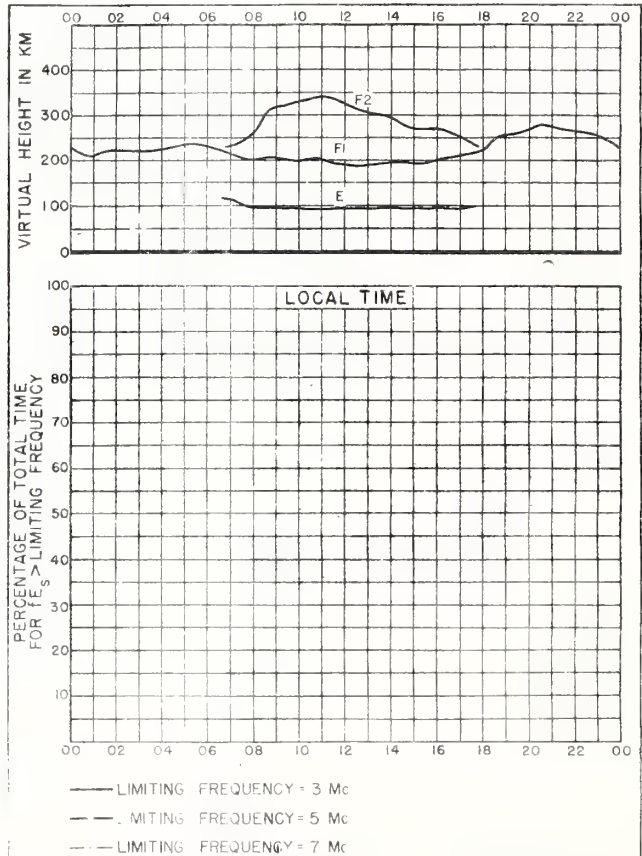
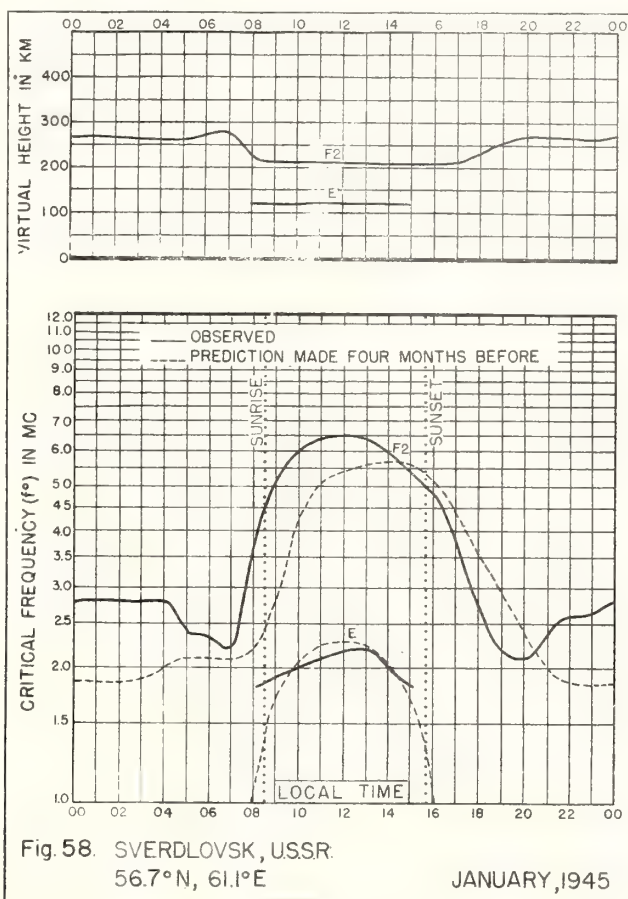
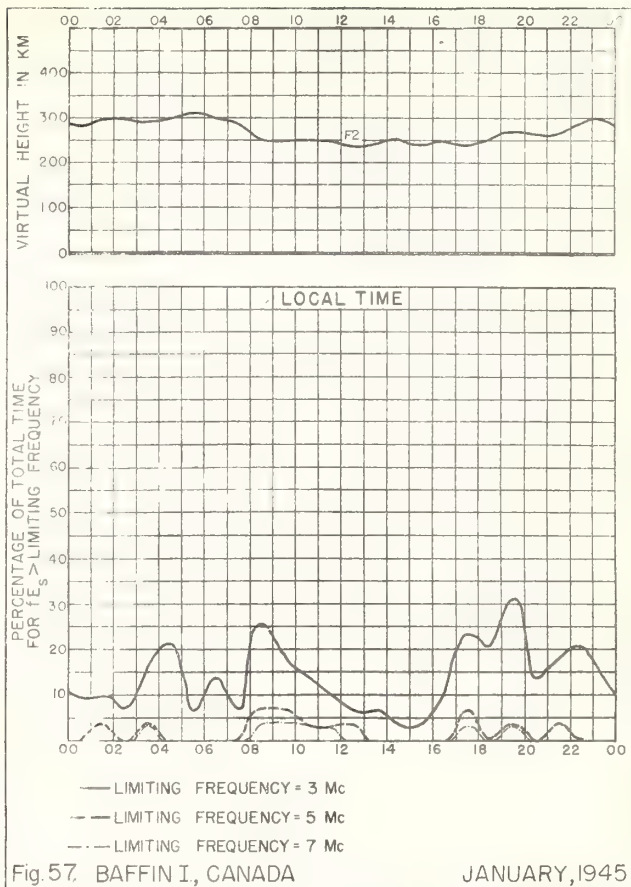
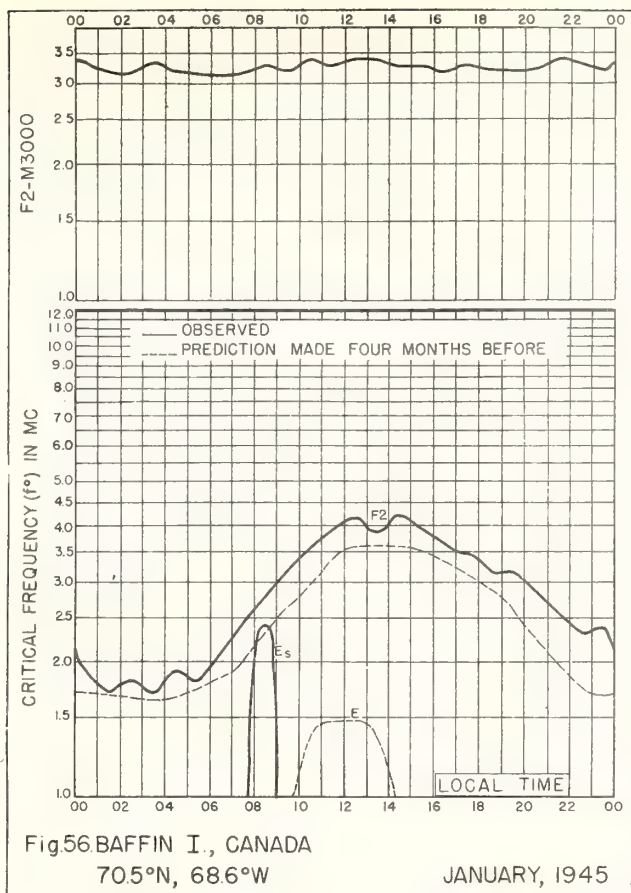


Fig 55. CAPE YORK, Q, AUSTRALIA

FEBRUARY, 1945



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Telephoned and telegraphed reports of ionospheric, solar, geomagnetic, and radio propagation data from various places.
Radio disturbance warnings.

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Special Reports, etc.:

IRPL Radio Propagation Handbook, Part 1. (War Dept. TM 11-499; Navy Dept. DNC-13-1).

IRPL-C1 through C61. Reports and papers of the International Radio Propagation Conference, 17 April to 5 May 1944.

IRPL-R. Unscheduled reports;

R1. Maximum Usable Frequency Graph Paper.

R2 and R3. Obsolete.

R4. Methods Used by IRPL for the Prediction of Ionosphere Characteristics and Maximum Usable Frequencies.

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R7. Further studies of ionospheric propagation as applied to a navigation system.

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